

ANNUAL REPORT

1960

Chicago Natural History Museum



SOUTH ENTRANCE

CHICAGO NATURAL HISTORY MUSEUM
(FORMERLY FIELD MUSEUM)
ROOSEVELT ROAD AND LAKE SHORE DRIVE

ON NEXT PAGE



Report of the Director

to the

Board of Trustees

for the year 1960



CHICAGO NATURAL HISTORY MUSEUM

1961

PRINTED IN THE UNITED STATES OF AMERICA
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

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In Memoriam

SEWELL L. AVERY
1874—1960

TRUSTEE OF THE MUSEUM
SINCE 1932 AND
MEMBER OF THE PENSION COMMITTEE
SINCE 1933

LIFE MEMBER OF THE MUSEUM FROM 1923
CORPORATE MEMBER
MUSEUM CONTRIBUTOR

GENEROUS SPONSOR
OF MUSEUM EXPEDITIONS
IN NORTH AND SOUTH AMERICA



In Memoriam

CHESSER M. CAMPBELL
1897—1960

TRUSTEE OF THE MUSEUM SINCE 1959
CORPORATE MEMBER OF THE MUSEUM

IN HIS BRIEF TERM OF SERVICE
HE SHOWED OUTSTANDING INTEREST IN
THE WORK OF THE MUSEUM



Fabian Bachrach

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* deceased

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DIRECTORS	FREDERICK J. N. SKIFF*	1893-1921
	D. C. DAVIES*	1921-1928
	STEPHEN C. SIMMS*	1928-1937

* deceased

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Pension—Hughston M. McBain, William V. Kahler, John G. Searle, John T. Pirie, Jr., Samuel Insull, Jr.

*deceased

LIST OF STAFF 1960

CLIFFORD C. GREGG, Sc.D., LL.D., Director
E. LELAND WEBBER, B.B.Ad., C.P.A., Assistant Director

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PAUL S. MARTIN, Ph.D., Chief Curator
DONALD COLLIER, Ph.D., Curator, South American Archaeology and Ethnology
GEORGE I. QUIMBY, A.M., Curator, North American Archaeology and Ethnology
JOHN B. RINALDO, Ph.D., Assistant Curator, Archaeology
KENNETH STARR, Ph.D., Curator, Asiatic Archaeology and Ethnology
ROLAND W. FORCE, Ph.D., Curator, Oceanic Archaeology and Ethnology
PHILLIP H. LEWIS, M.A., Associate Curator, Primitive Art
HOSHIE TCHEN, Ph.D., Consultant, East Asian Collection
ALLEN S. LISS, A.B., Custodian of Collections
ALFRED LEE ROWELL, Dioramist
GUSTAF DALSTROM, Artist
WALTER BOYER, B.F.A., Ceramic Restorer
WALTER C. REESE, Preparator
VIRGINIA B. STROSS, A.B., Departmental Secretary*
AGNES M. FENNELL, B.A., Departmental Secretary

ROBERT J. BRAIDWOOD, Ph.D., Research Associate, Old World Prehistory
FAY-COOPER COLE, Ph.D., Sc.D., LL.D., Research Associate, Malaysian Ethnology
A. L. KROEBER, Ph.D., Research Associate, American Archaeology†
J. ERIC THOMPSON, Dipl.Anth.Camb., Research Associate, Central American Archaeology
EVETT D. HESTER, M.S., Field Associate

DEPARTMENT OF BOTANY

JOHN R. MILLAR, Chief Curator
THEODOR JUST, Ph.D., Chief Curator†
B. E. DAHLGREN, D.M.D., Curator Emeritus
J. FRANCIS MACBRIDE, Curator, Peruvian Botany
JOHN W. THIERET, Ph.D., Curator, Economic Botany
C. EARLE SMITH, JR., Ph.D., Associate Curator, Vascular Plants
LOUIS O. WILLIAMS, Ph.D., Associate Curator, Central American Botany
J. S. DASTON, Sc.D., Assistant, Botany†
PATRICIO PONCE DE LEON, Ph.D., Assistant, Botany
ROBERT J. REICH, Custodian, Herbarium*
EMIL SELLA, Curator of Exhibits

*resigned

†deceased

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SAMUEL H. GROVE, JR., Artist-Preparator
FRANK BORYCA, Technician
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DEAN RANDALL, Artist*
ROBERT ANDERSON, Artist
EDITH M. VINCENT, A.B., Research Librarian
DOROTHY GIBSON, Departmental Secretary

E. P. KILLIP, A.B., Research Associate, Phanerogamic Botany
ROGERS McVAUGH, Ph.D., Research Associate, Vascular Plants
DONALD RICHARDS, Research Associate, Cryptogamic Botany
EARL E. SHERFF, Ph.D., Research Associate, Systematic Botany
HANFORD TIFFANY, Ph.D., Research Associate, Cryptogamic Botany
MARGERIE C. CARLSON, Ph.D., Associate, Botany
ARCHIE F. WILSON, Associate, Wood Anatomy†

DEPARTMENT OF GEOLOGY

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ALBERT W. FORSLEV, M.S., Associate Curator, Mineralogy*
EDWARD J. OLSEN, Ph.D., Associate Curator, Mineralogy
BERTRAM G. WOODLAND, B.Sc., Associate Curator, Petrology
HARRY E. CHANGNON, B.S., Curator of Exhibits
HENRY HORBACK, Assistant
HENRY U. TAYLOR, Preparator
RAINER ZANGERL, Ph.D., Curator, Fossil Reptiles
ROBERT H. DENISON, Ph.D., Curator, Fossil Fishes
WILLIAM D. TURNBULL, Assistant Curator, Fossil Mammals
DAVID TECHTER, B.S., Assistant, Fossil Vertebrates
EUGENE S. RICHARDSON, JR., Ph.D., Curator, Fossil Invertebrates
GEORGE LANGFORD, Ph.B., Curator, Fossil Plants
ORVILLE L. GILPIN, Chief Preparator, Fossils
RONALD J. LAMBERT, Preparator, Fossils
MAIDI WIEBE, Artist
EVELYN SHAHROCH, Departmental Secretary

ERNST ANTEVS, Ph.D., Research Associate, Glacial Geology
ALBERT A. DAHLBERG, D.D.S., Research Associate, Fossil Vertebrates
ERIK N. KJELLESVIG-WAERING, B.Sc., Research Associate, Fossil Invertebrates
EVERETT C. OLSON, Ph.D., Research Associate, Fossil Vertebrates
BRYAN PATTERSON, Research Associate, Fossil Vertebrates
R. H. WHITFIELD, D.D.S., Associate, Fossil Plants
VIOLET WHITFIELD, B.A., Associate, Fossil Plants

* resigned

† deceased

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KARL KOOPMAN, Ph.D., Assistant Curator, Mammals
EMMET R. BLAKE, M.S., Curator, Birds
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M. DIANNE MAURER, Assistant, Birds
ROBERT F. INGER, Ph.D., Curator, Amphibians and Reptiles
HYMEN MARX, B.S., Assistant Curator, Reptiles
JANET WRIGHT, Assistant, Reptiles
LOREN P. WOODS, A.B., Curator, Fishes
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RUPERT L. WENZEL, B.A., Curator, Insects
HENRY S. DYBAS, B.S., Associate Curator, Insects
AUGUST ZIEMER, Assistant, Insects
FRITZ HAAS, Ph.D., Curator Emeritus, Lower Invertebrates
ALAN SOLEM, Ph.D., Curator, Lower Invertebrates
ERNEST J. ROSCOE, M.S., Assistant, Lower Invertebrates
D. DWIGHT DAVIS, Curator, Vertebrate Anatomy
PHYLLIS WADE, B.S., Assistant*
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SOPHIE ANDRIS, Osteologist
CARL W. COTTON, Taxidermist
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MARIO VILLA, Assistant Taxidermist
PETER ANDERSON, Assistant Taxidermist
JOSEPH B. KRSTOLICH, Artist
RUTH ANDRIS, Departmental Secretary

GREGORIO BONDAR, Research Associate, Insects†
RUDYERD BOULTON, B.S., Research Associate, Birds
ALFRED E. EMERSON, Ph.D., Research Associate, Insects
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ORLANDO PARK, Ph.D., Research Associate, Insects
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CHARLES H. SEEVERS, Ph.D., Research Associate, Insects
R. M. STRONG, Ph.D., Research Associate, Anatomy
ROBERT TRAUB, Ph.D., Research Associate, Insects
ALEX K. WYATT, Research Associate, Insects
LUIS DE LA TORRE, M.S., Associate, Mammals
MARION GREY, Associate, Fishes
WALDEMAR MEISTER, M.D., Associate, Anatomy
EDWARD M. NELSON, Ph.D., Associate, Fishes
HARRY G. NELSON, B.Sc., Associate, Insects
KARL PLATH, Associate, Birds

* resigned

† deceased

DEPARTMENT OF ZOOLOGY (CONTINUED)

DIOSCORO S. RABOR, M.S., Associate, Birds
LILLIAN A. ROSS, Ph.B., Associate, Insects
ELLEN T. SMITH, Associate, Birds
ROBERT L. FLEMING, Ph.D., Field Associate
GEORG HAAS, Ph.D., Field Associate
FREDERICK J. MEDEM, Sc.D., Field Associate

DEPARTMENT OF THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

RICHARD A. MARTIN, B.S., Curator
ALMON COOLEY, Assistant Preparator¶
MARVIN RABE, Assistant Preparator*

BERTHA M. PARKER, M.S., Research Associate

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION FOR PUBLIC SCHOOL AND CHILDREN'S LECTURES

MIRIAM WOOD, M.A., Chief	DOLLA COX, A.B.*
MARIE SVOBODA, M.A.	ELLEN MILLER*
HARRIET SMITH, M.A.	MARYL ANDRE, B.S.
EDITH FLEMING, M.A.	ELDA B. HERBERT, M.A., Secretary

THE LIBRARY OF THE MUSEUM

Administration

META P. HOWELL, B.L.S., Librarian
M. EILEEN ROCOURT, M.A., Associate Librarian
MARIAN CHRISTENSEN, A.A., Secretary*
ESTHER P. KERSTER, Secretary

Classification and Cataloguing

W. PEYTON FAWCETT, B.A.
BERTHA W. GIBBS, A.B., B.S.inL.S.
BORIS IVANOV, Dipl.Law¶
CHIH-WEI PAN, M.S.

Reference

EUGENIA BERNOFF

Accessions, Binding, Stacks

GEORGE STOSIUS, M.E.
CONSTANTIN GLOBA, Dipl.Eng.

¶ retired

* resigned

ASSOCIATE EDITORS OF MUSEUM PUBLICATIONS

LILLIAN A. ROSS, Ph.B., Scientific Publications

MARTHA H. MULLEN, B.A., Assistant*

HELEN ATKINSON MACMINN, A.M., Miscellaneous Publications

PUBLIC RELATIONS COUNSEL

H. B. HARTE†

PAULA R. NELSON

MARILYN JINDRICH, B.S., Associate

DIVISION OF MEMBERSHIPS

GLORIA PAGANO, in charge

MARY H. RYAN, Assistant

ADMINISTRATION AND RECORDS

SUSANMARY CARPENTER, B.A., Secretary to the Director

MARION G. GORDON, B.S., Registrar

RAYMOND A. N. GOMES, Assistant Recorder

HILDA NORDLAND, Assistant Recorder

JEANNETTE FORSTER, Assistant Recorder

JESSIE DUDLEY, Receptionist

ACCOUNTING

MARION K. HOFFMANN, Auditor

ELEANOR SHEFFNER, Bookkeeper

ROBERT E. BRUCE, Purchasing Agent

THE BOOK SHOP

JANE COMISKEY, B.A., Manager

MARION A. KRATKY, B.A., Secretary

DIVISION OF ILLUSTRATION

E. JOHN PFIFFNER, Staff Artist

MARION PAHL, B.F.A., Staff Illustrator

* resigned

† deceased

DIVISION OF PHOTOGRAPHY

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HOMER V. HOLDREN, Assistant
KURT BOGEN, Assistant

CLARENCE B. MITCHELL, B.A., Research Associate, Photography

DIVISION OF MOTION PICTURES

JOHN MOYER, in charge

DIVISION OF PRINTING

RAYMOND H. HALLSTEIN, SR., in charge
HAROLD M. GRUTZMACHER, Assistant

DIVISION OF MAINTENANCE

JAMES R. SHOUBA, Superintendent
GUSTAV A. NOREN, Assistant Superintendent

DIVISION OF ENGINEERING

WILLIAM E. LAKE, Chief Engineer
LEONARD CARRION, Assistant Chief Engineer

THE GUARD

FRANK C. JENSIK, Captain*
HARRY R. SMITH, Captain

* resigned

Annual Report of the Director

CHICAGO
NATURAL
HISTORY
MUSEUM

Annual Report

of the Director

To the Trustees:

I have the honor to present a report of the operations of the Museum for the year ending December 31, 1960.

Attendance continued to increase and the popularity of our summer evening-hours was confirmed. Following the trial period in 1959, the 8 o'clock closing hour was continued this year on the evenings when public concerts were held in Grant Park and, in addition, was extended to Saturdays and Sundays so that the pleasant evenings in Grant Park might be more enjoyable for visitors. On one such evening (Sunday, August 7), 1,356 persons entered the Museum building after six o'clock.

The Museum has long been recognized throughout the world as an institution of notable scientific research, and many important and unique collections of materials have come here because of its eminence in the scientific world. Further indications of our prestige are the grants from Foundations for Scientific Research, the numbers of persons from distant places who come here to study, and the ever-increasing demand for the publications of the Museum and of its staff members.

During the year members of the Museum's scientific staff were engaged in nine research problems with aid from the National Science Foundation. These included "Archaeology of the Upper Little Colorado," Dr. Paul S. Martin; "Archaeological Study of Urbanization in Prehistoric Peru," Dr. Donald Collier; "Chondrules in Stony Meteorites," Dr. Sharat K. Roy; "Mammalogy of Surinam" and

"Check List of Recent Mammals of South America," Philip Hershkovitz; "Systematics and Zoogeography of the Freshwater Fishes of North Borneo" and "Systematics and Zoogeography of the Amphibians and Reptiles of Borneo," Dr. Robert F. Inger; "Check List of Birds of Angola," Melvin A. Traylor, Jr.; and "Paleoecology of Pennsylvanian Black Shale," Dr. Rainer Zangerl and Dr. Eugene S. Richardson, Jr. It is worthy to note that "Head Musculature of American Boas," the research project of Mrs. Frances W. Gibson, a graduate student of the University of Arkansas, was given Museum sponsorship at the request of the National Science Foundation.

In addition, three grants have been awarded that are to be undertaken after the close of this year. They are Dr. John W. Thieret's "Floristic Study of the Yellowknife Highway Region," Dr. Paul S. Martin's "Cultural Stability in the Upper Little Colorado River Drainage," and Dr. Alan Solem's four-year study of "Systematics and Zoogeography of Pacific Ocean Endodontid Land Snails."

The study on "Changes in Plants Used at Tularosa Cave, New Mexico," by Dr. Hugh C. Cutler, now of Missouri Botanical Garden, was supported by the Wenner-Gren Foundation for Anthropological Research and awaits only Dr. Cutler's final report to bring it to completion. Dr. Jack Fooden, a postdoctoral student of the University of Chicago working at the Museum, is revising, under grants from the National Institute of Health and the National Science Foundation, the systematics of the woolly monkeys. Chin Phui Kong, fisheries officer with the government of North Borneo, spent about six months at the Museum under a National Science Foundation grant to study freshwater fishes of North Borneo.

Dr. Kenneth Starr's field trip to Formosa was greatly aided by a grant from the American Council of Learned Societies and the Social Science Research Council. A grant from Field Enterprises Educational Corporation supported the Museum's Field Associate Dr. Robert L. Fleming in his participation in the World Book Encyclopedia Scientific Expedition to the Himalayas led by Sir Edmund Hillary (see page 39). A travel grant from the National Science Foundation enabled Dr. Collier to attend anthropological meetings in Europe and to study American collections in museums of Europe and Great Britain.

The Museum granted Thomas J. Dee Fellowships for research at the Museum (see page 114) to Miss Mona R. J. Edwards of the British Museum (Natural History) for her study of exhibition methods and techniques, to the Reverend H. B. Herrington of Westbrook, Ontario, Canada, for his study of freshwater clams, and to Dr. J. A. Roze of Caracas, Venezuela, for his research in herpetology.

TRUSTEES AND OFFICERS

Stanley Field, President of the Museum since 1909, was re-elected at the annual meeting of the Board of Trustees to serve for his fifty-second year. Other officers re-elected were: Vice-Presidents Hughston M. McBain, Walther Buchen, and Joseph N. Field, Treasurer Solomon A. Smith, and Secretary Clifford C. Gregg. E. Leland Webber was elected Assistant Secretary. At the December meeting of the Board of Trustees, J. Howard Wood, who is president of the Tribune Company and publisher of the *Chicago Tribune*, was elected a member of the Board and a Corporate Member of the Museum.

Members of the Board of Trustees noted with deep regret the passing of two of their members during the year. Sewell L. Avery died on October 31 and Chesser M. Campbell died on July 10. Mr. Campbell, the newest member of the Board, was elected to that office on January 19, 1959. Mr. Avery, who had been a member of the Board since 1932, had contributed funds for several Museum expeditions. Appreciation for services of each of these Trustees was appropriately recorded in the minutes of the Board of Trustees (photographs are on pages 9 and 11).

During the year the Museum's most outstanding investment asset, the Pittsfield Building, was sold by direction of the Board of Trustees on recommendation of the Finance Committee. This splendid 38-story office building came into the possession of the Museum in 1944 as a gift of the late Marshall Field III, Trustee and Benefactor of the Museum. The earnings of this property made up a substantial portion of the support of the Museum. However, after long consideration, it was decided that it would not be best to keep so large a percentage of the Museum's investment holdings in a single unit and, while this investment had returned a very satisfactory income, the trend, due to constantly increasing taxes and operating costs, would be steadily downward.

To implement the study of the renowned A. W. F. Fuller Collection of ethnological and archaeological materials from the Pacific acquired by the Museum in 1958 the Board of Trustees at its September meeting established the A. W. F. Fuller Foundation (this fund will also provide for maintenance and increase of the collection to which Captain Fuller devoted major attention throughout his career). Subsequently the A. W. F. Fuller Library was established in order to support the studies by making available the most pertinent literature. The nucleus of the Fuller Library was formed by purchases and gifts and by transfer of some volumes from the General Library of the Museum.



CHILDREN ON
SOUNDREK TOUR
POSE WITH
THE GRIZZLY BEARS
IN HALL 16

RICHARD T. CRANE, JR., HALL

ATTENDANCE

Attendance in 1960 showed a gain of approximately 169,000, bringing the total for the year to 1,244,374. The increase occurred in a fairly uniform pattern not only as to time of year but also as to all classifications of visitors. The attendance during August was the greatest recorded in any month since August 1941. We are particularly pleased that many school teachers came to the Museum this year.

MEMBERS' NIGHT

Members' Night, which this year was held on Friday evening, April 29, brought a record crowd of 1,767 visitors to the Museum. "Congo Safari," an illustrated lecture by Dr. Robert F. Inger, Curator of Amphibians and Reptiles, which was given twice to standing-room-only crowds, and a preview of "Peoples of the World," a special exhibit of photographs by Nickolas Muray on loan from the Wenner-Gren Foundation for Anthropological Research, were main attractions. Soundtrek, the Museum's newly installed radio-guide system, was available for tours of certain exhibition halls. New and reinstalled exhibits were featured on the ground, first, and second floors, and on the third and fourth floors special exhibits prepared by members of the Museum staff were shown in the laboratories, workrooms, offices, and General Library.

SOUNDTREK

Work continued on improvement of Soundtrek, the Museum's radio-guide system. During 1960 ten additional halls were equipped, bringing the total installation to sixteen halls. Because of the flexibility of the multichannel system, ten of the sixteen halls offer both a long and a short tour, so that twenty-six different tours are available to visitors at all times. Another demonstration of the flexibility of the system occurred in July during the Lions International convention when special tours in Spanish and French were offered for the visitors from other countries in addition to the English programs. Technical success of the system led to its installation in the Milwaukee Public Museum and to contracts for installation in the American Museum of Natural History, Brooklyn Museum, and Dayton Museum of Natural History. By the end of the year much improved electronic equipment had been developed and plans were being made for a complete reinstallation early in 1961.

STAFF OF THE MUSEUM

Early in the year Dr. Theodor Just, Chief Curator of the Department of Botany, was taken with an illness that resulted in his death a few months later. This was a particularly heavy blow to the Museum not only because of Dr. Just's scientific standing but also because of his genial disposition that had endeared him to all of his co-workers. Horace B. Harte, head of the Division of Public Relations, died suddenly in January at his home. He had been with the Museum since 1927 and had capably handled his Division since that time. He was prime mover in founding *Field Museum News* that later became *Chicago Natural History Museum Bulletin*. Joshua S. Daston, Assistant in the Department of Botany, who had worked out unusual techniques for the restoration of type photographs, died in April.

Dr. Alfred L. Kroeber, Research Associate in American Archaeology and anthropologist on the staff of the University of California, died early in October. He was elected Research Associate by the Board of Trustees in 1925 and had been closely in touch with the work of the Museum ever since that time. Archie F. Wilson, Associate in Wood Anatomy, who was a deeply interested volunteer, died late in August. Word was received recently of the death in February, 1959, in São Paulo, Brazil, of Professor Gregorio Bondar, Research Associate in the Division of Insects since 1942.

I record with regret also the deaths during the year of Sidney S. Durling, Clarence E. Chambers, and Sam Colovos, of the guard force, and the following loyal workers whose services had been completed in former years: Miss Elizabeth B. Stone, formerly Secretary in the Department of Zoology, who retired in 1943; George Woodward, who retired as Captain of the Guard in 1953; Mathias Dones, carpenter-preparator in the Department of Botany, who retired in 1953; and Mrs. Rose Hercog, charwoman, who retired in 1960.

The untimely death of Dr. Just forced the Board of Trustees to make a major redeployment of personnel. John R. Millar, Deputy Director, was appointed Chief Curator of Botany. Mr. Millar, who has been with the Museum since 1918, rendered distinguished service as a member of the Department of Botany, as Curator of the Department of the N. W. Harris Public School Extension of the Museum, and as Deputy Director. His knowledge and skill in the field of exhibition are invaluable at this time because of the impending exhibition program in the Department of Botany. E. Leland Webber, Executive Assistant, was appointed Assistant Director. He came to the Museum in 1950 and has rendered distinguished service in its business management.

Dr. Louis O. Williams joined the staff this year as Associate Curator of Central American Botany, a field in which he had extensive experience with the United Fruit Company before entering government service in the Department of Agriculture. Dr. Albert W. Forslev, Associate Curator of Mineralogy, resigned to accept a teaching position at the College of William and Mary, and Dr. Edward J. Olsen, of Western Reserve University, was appointed Associate Curator of Mineralogy. Phillip H. Lewis, Assistant Curator of Primitive Art, was promoted to Associate Curator, and Hymen Marx, Assistant in the Division of Reptiles, was promoted to Assistant Curator. W. Peyton Fawcett, of the Library staff, returned to his position at the Museum after two years in military service.

Evvett D. Hester, who recently had resigned from the staff, was appointed Field Associate in Anthropology, and Dr. Patricio Ponce de León, formerly of the University of Havana, was appointed Assistant in the Department of Botany. Mrs. Paula R. Nelson was appointed Public Relations Counsel and Managing Editor of the Museum *Bulletin* (she has had long experience in public relations and editorial work at the University of Chicago). Other appointments during the year were: Robert Anderson, Artist, Botany; Kurt Bogen, Assistant, Photography; Miss Joan Davis, Assistant, Division of Vertebrate Anatomy; Mrs. Bertha W. Gibbs, Cataloguer, Library; Mrs. Esther P. Kerster, Secretary, Library; Miss M. Dianne Maurer, Assistant, Birds; and Miss Janet Wright, Assistant, Reptiles.

Miss Marilyn Jindrich, Assistant in the Division of Public Relations, was promoted to Associate. Mrs. Elda B. Herbert of the Book Shop was transferred to the staff of Raymond Foundation as Secretary, and Mrs. Jessie Dudley of the Book Shop became Receptionist at the time of the resignation of Miss Celeste Luwen. Colonel Harry R. Smith, United States Army, Retired, came to the Museum as Captain of the Guard after the resignation of Captain Frank C. Jensik.

Mrs. Virginia B. Stross resigned as Secretary in the Department of Anthropology and Mrs. Agnes McNary Fennell returned to the Museum to fill the vacancy (Mrs. Fennell, as Miss Agnes McNary, had served as Secretary for seventeen years and left the Museum in 1957 at the time of her marriage). Other resignations during the year were: Miss Marian Christensen, Secretary, Library; Mrs. Ellen Miller, Raymond Foundation; Miss Martha H. Mullen, Assistant, Scientific Publications; Marvin Rabe, Assistant Preparator, Harris Extension; Dean Randall, Artist, Botany; Robert J. Reich, Custodian, Herbarium; Miss Phyllis Wade, Assistant, Division of Vertebrate Anatomy; and Miss Dolla Cox, Raymond Foundation. Almon Cooley, Assistant Preparator, Harris Extension, retired.



BENJAMIN CASCARD
JOHN DYKSTRA
CHRIS PRIESMEYER
AND
WILLIAM FOUST

WITH THE NEW TRUCKS
THAT DELIVER EXHIBITS OF
THE N. W. HARRIS
PUBLIC SCHOOL EXTENSION
TO CHICAGO SCHOOLS

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

The year saw no changes in procedure in carrying out the lending program for which this department of the Museum functions. As in the past, two of the more-than-1,000 portable exhibits prepared over the years in the workshop of Harris Extension were delivered routinely every tenth schoolday to schools in Chicago and to public-service institutions accredited for our circulation list. Each school and institution received 34 different exhibits within the year. The departmental trucks transporting the exhibits were in operation 170 days and traveled a combined total of 11,623 miles.

Ten schools were dropped from the circulation list during the year, while five others and a Near North Side settlement house were added. At the end of the year 501 schools and institutions were receiving the portable exhibits, four less than at the beginning of the year.

Damage to the portable exhibits out on loan was light in comparison with other years. Sixteen had to be withdrawn for repair, but all except two, in which there was injury to the installations, could be repaired promptly and returned to the school circuit. There would undoubtedly have been more damage through vandalism in schools but for the discontinuance of service at the request of principals of certain elementary schools where behavior problems make it impossible for the principals to assume responsibility for the exhibits.

Maintenance repairs were made in the workshop—mainly during July and August—on 347 of the portable cases. In 32 of these, repair work was necessary on the exhibit material.

Five new exhibits were completed early in the year and put into circulation. Progress in preparation of new exhibits and in renovation of old ones has been hampered by the retirement of Assistant Preparator Almon Cooley at the end of April. The resignation of Assistant Preparator Marvin Rabe in August to attend college has left the department without a preparator.

In August two new trucks were purchased and equipped with the partitions and rubber bumpers necessary for safe transportation of the Harris Extension exhibits. Terminal mileages on the retired trucks after eleven years of use were 60,913 on the truck that had serviced the North Side and 63,847 on the truck for the South Side.

Fifty-eight requests for the loan of specific materials were received and filled during the year. In granting these requests, more than 600 items, such as eggs, seed samples, skulls, skins, fossils, and herbarium sheets, were selected and lent to individuals, and 31 portable exhibits were delivered by truck as special loans.

VOLUNTEER WORKERS

The Museum thanks its volunteer workers for their help during the year. Some of them, designated as Research Associates and Associates, are included in the List of Staff at the beginning of this Report. Other volunteers are: Burton Adlerblum, Miss Barbara Bruckner, Stanley Dvorak, Harold Hinds, Ralph Holmes, Miss Carol J. Murphy, Mrs. Lottie Roscoe, Miss Margaret Shurrager, and Mrs. Barbara Solem. Our volunteers assisted in various phases of the Museum's scientific work.

SPECIAL EXHIBITS

"Peoples of the World," a striking and effective special exhibit, opened on Members' Night, April 29 (see page 27), and remained on exhibition for two months. We were fortunate to be the first museum to exhibit this selection of two hundred photographs taken by the noted New York photographer Nickolas Muray, who had been commissioned by the Wenner-Gren Foundation for Anthropological Research to create on film an ethnological study of certain areas of the Pacific, Asia, and Africa.

"Eleven Centuries of Icelandic Culture," a group of fifty large photographs assembled by Cyrus T. Brady, Jr., to show various aspects of Iceland's history and cultural development, was presented during July and August. "Sea Peoples of the Sulu Archipelago," a collection of oil sketches by Lucie Palmer, artist and geographer, was shown in October and November. Mrs. Palmer, who lived among the Sulus of the southwest Philippines, vividly has portrayed their life in her paintings.

For many years the Museum has co-operated with the School of the Art Institute of Chicago in an annual exhibit in May of work done in our halls by students from the School (see page 89). This year the exhibit gained considerable diversity when ceramics, etchings, metal and enamel work, and design were added to the usual paintings and drawings. For the first time several instructors from the School also exhibited their work at the Museum.

Two other annual exhibits added interest to the Museum program. The exhibit of nature photography from many parts of the world was held in February under the auspices of the Nature Camera Club of Chicago and the Museum, and the exhibit of amateur hand-crafted gems and jewelry, sponsored by the Chicago Lapidary Club, was displayed from June 6 to July 6.

JAMES NELSON AND ANNA LOUISE RAYMOND
FOUNDATION FOR PUBLIC SCHOOL AND
CHILDREN'S LECTURES

Activities of Raymond Foundation during the year continued the established plan of serving organized groups and individuals (mainly children) according to their educational needs.

The ever-increasing work with children resulted in discontinuance of lecture tours for adults except during the summer months and on Saturday afternoons in March, April, October, and November. The tremendous effectiveness of Soundtrek portable radio-receiving sets now enables individuals to go unattended through the halls listening to recorded lectures on the exhibits. Many of the recorded Soundtrek lectures were prepared by members of the staff of Raymond Foundation. Other lectures were prepared by members of the Museum's scientific staff.

Television programs for children were presented by Mrs. Maryl Andre on Channel 9 (WGN-TV) in the spring, and six summer and two fall programs were also presented by members of Raymond Foundation staff on Lee Phillips's "Friendship Show" on Channel 2 (WBBM-TV). Two series of Museum Stories for children were published and distributed to children who attended the spring and fall motion-picture programs on Saturday mornings: "The Chao Family of China" by Edith Fleming (spring) and "Holiday in Ancient Egypt" by Harriet Smith (fall).

The Journey program for individual boys and girls continued with greatly increased participation. The year showed a total of 1,698 Journeys completed (in comparison with 945 in 1959). Twelve of the 136 boys and girls who received awards during the year in the program became members of the Museum Discoverers' Club.

An unusual tour was requested by the Chicago Council of Girl Scouts for their troop leaders in order to acquaint them with the museums of Chicago and the many exhibits and programs that are of great help to Girl Scouts. This tour was called "Know Your Museums," and registration in the group was limited to thirty-five Girl Scout leaders (picture on page 35).

Summaries of activities of Raymond Foundation for the year, with attendance figures, are presented on the following pages. The first summary is a condensed report of attendance for all tours, school programs, motion-picture programs, and Journey series. The second summary is a list of programs selected from the total list (these programs fitted the needs of groups and individuals so well that enthusiasm and attendance were very high).

RAYMOND FOUNDATION
ATTENDANCE TOTALS FOR 1960

1. WORK WITH CHILDREN

<i>A. School groups</i>	Groups	Individuals	Groups	Individuals
Chicago public.	588	23,652		
Chicago parochial.	27	1,076		
Chicago private.	41	1,046		
Total Chicago groups.	656	25,774		
Suburban public.	1,129	39,111		
Suburban parochial.	51	1,596		
Suburban private.	12	292		
Total suburban groups.	1,192	40,999		
Out-of-state groups.	114	4,369		
Total.			1,962	71,142
<i>B. Other groups</i>				
Special (clubs, etc.)			87	7,550
<i>C. Individuals or groups</i>				
Journeys.		1,698		
Children's movies.	30	17,352		
Total.			30	19,050
TOTAL WORK WITH CHILDREN.			2,079	97,742

2. WORK WITH ADULTS

Colleges.	16	382		
Public tours.	167	2,091		
Miscellaneous groups.	10	165		
Museum-film showings.	49	4,069		
TOTAL WORK WITH ADULTS.			242	6,707
GRAND TOTAL FOR RAYMOND FOUNDATION WORK.			2,321	104,449

TWO GIRL SCOUT LEADERS
AFTER TAKING
THE SPECIAL TOUR
"KNOW YOUR MUSEUMS"



RAYMOND FOUNDATION
SELECTED PROGRAMS WITH HIGH ATTENDANCE IN 1960

1. STUDY-UNIT PROGRAMS

Ancient Egypt (<i>spring and fall</i>)	37 programs with 3,121 in attendance
Knowing and Appreciating Birds (<i>spring</i>)	27 programs with 2,395 in attendance
Miracle of Plants (<i>spring</i>)	20 programs with 1,351 in attendance

2. SPECIAL GEOLOGY TOUR (*for March only*)

Rocks from the Sky	35 programs with 1,444 in attendance
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3. INTERMEDIATE GIRL SCOUT NATURE-BADGE PROGRAMS

<i>February on Saturdays (3)</i>	3 programs with 1,086 in attendance
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4. PROGRAMS FOR INDIVIDUALS OR FOR GROUPS

A. HONOR DAYS FOR ORGANIZATIONS

Cub Scout Day	1,309 in attendance
Camp Fire Girl Day	521 in attendance
Girl Scout Day	1,048 in attendance

B. JOURNEYS

No. 20—Animals of the Ice Age <i>winter of 1959-60 (January, February)</i>	217
No. 21—China <i>spring</i>	644
No. 22—Whales <i>summer</i>	305
No. 23—Ancient Egyptians <i>fall</i>	430
No. 24—Toys <i>winter of 1960-61 (December only)</i>	102

Awards presented in 1960 in these Journeys:

Travelers (completed 4 different Journeys)	68
Adventurers (completed 8 different Journeys)	36
Explorers (completed 12 different Journeys)	12
Final Special Journey	8
Museum Discoverers	12

MUSEUM DISCOVERER
CAROL JANNUSCH
RECEIVES HER CLUB CARD
FROM
E. LELAND WEBBER
ASSISTANT DIRECTOR OF
THE MUSEUM



LECTURE PROGRAMS FOR ADULTS

The Saturday afternoon lecture series for adults were continued during March, April, October, and November, these being the 113th and 114th series presented through the generous foresight of the late Edward E. Ayer, a President of the Museum, who established the lecture foundation. About 17,000 persons attended the eighteen lectures, which were presented without charge to the public. It has been our plan to present interesting and informative motion pictures covering remote parts of the earth as well as many places in our own country. The response, both verbal and written, of our audiences has been most encouraging and assists in the selection of future programs. I am happy to report that many of our lecturers tell us that ours is a "good" audience. Such favorable audience-reponse enables us to obtain speakers who in certain instances might not otherwise be available for our programs. Subjects of the films and lectures for the series in 1960 included New England, France, Norway, London, Pakistan, Holland, California, New Zealand, and Texas.

MEMBERSHIPS

The increase in the number of Museum Members, which was especially marked in 1959, continued throughout 1960. Total membership at the end of the year was 7,274, making a net gain of 719. Although this net gain is slightly less than that of the previous year, it is significant that there was a disproportionate number of transfers from Annual to Associate memberships. (Names of Contributors elected by the Board of Trustees in 1960 are given on page 40, and complete membership lists begin on page 129.)

It is appropriate to record the thanks of the Museum to its Members who have contributed so significantly in its development. The Associate and Life Membership Funds, which are built up through membership fees, now amount to more than \$885,000, while our Annual and Sustaining Members contributed in 1960 more than \$35,000 to the operating funds of the Museum. Total cash receipts of the Division of Memberships in 1960 was 17.3 per cent more than the total in 1959.

The Museum notes with regret the death during the year of two men whose loyal service has meant much to the Museum over a period of many years: Arthur S. Vernay of Nassau, Bahamas, an Honorary Member and Patron of the Museum, and Clay Judson of Chicago, a Patron of the Museum.

GIFTS TO THE MUSEUM

Stanley Field, President of the Museum, gave an additional \$56,306.51 for endowment, and Mrs. Stanley Field, a Benefactor of the Museum, added \$2,000 to the Sara Carroll Field Fund. Dr. Maurice L. Richardson added \$1,000 to the Maurice L. Richardson Paleontological Fund; Miss Margaret B. Conover added \$865.25 to the Conover Game-bird Fund; and C. Suydam Cutting, an Honorary Member of the Museum, added \$750 to the C. Suydam Cutting Fund. The Johnson Foundation gave an additional \$4,000 to the S. C. Johnson Fund for our continuing study of waxy palms.

Additions to other Special Funds were in the following amounts: \$583.81 from the estate of the late Mrs. Abby K. Babcock for the Frederick Reynolds and Abby Kettelle Babcock Fund; \$2,001.55 from the Mrs. Joan A. Chalmers Real Estate Trust for the Joan A. Chalmers Bequest Fund; and \$1,285 from the estate of the late Miss Shirley Farr for the Shirley Farr Bequest Fund.

The Commander Frank V. Gregg Memorial Fund received \$200 from Dr. Clifford C. Gregg and \$100 from Louis Ware, and the Karl P. Schmidt Fund received \$25 from Commander John F. Kurfess, U.S.N., and \$10 from the Karl P. Schmidt Organization Committee. The A. W. F. Fuller Foundation (see page 25) received gifts from President Field, Director Gregg, Dr. Roland W. Force, and Hughston M. McBain (for use of Special Funds see page 114).

Mrs. William S. Street gave \$5,875 for an expedition to Iran and Field Enterprises Educational Corporation gave \$3,000 to provide Museum participation in the World Book Encyclopedia Scientific Expedition to the Himalayas. Dr. Jeanne S. Schwengel gave \$3,462.88 to purchase the de Boe shell collection (see page 73), Mr. and Mrs. Roy E. Sturtevant gave \$1,000 for use by the Department of Geology, and Mr. and Mrs. Hermon Dunlap Smith gave \$200 for use by the Division of Birds. William H. Mitchell made an unrestricted gift of \$500.

Other gifts came from: Edwin C. Austin, George Bates, Mr. and Mrs. M. B. Beach, Carl Behr, Wm. McCormick Blair, Mrs. J. B. Burge, Jr., Kent Chandler, Peder A. Christensen, Alfred Cowles, Mr. and Mrs. Elliott Donnelley, Mr. and Mrs. Gaylord Donnelley, Murray N. Fairbank, Mrs. Marshall Field, Jr., Mrs. H. H. Hall, Flexible Steel Lacing Company, Mrs. Jesse R. Gerstley, Mr. and Mrs. Maxwell Hahn, Richard W. McLaren, Miss Pan Minke, Mrs. Langdon Pearse, Philip S. Rinaldo, Jr., Melvin N. and Mary F. Rothchild Fund, Andrew Sage, Mr. and Mrs. Reuben M. Schutz, Mrs. Richard Zickman, and Waukegan Hyde Park School (4th grade).

Contributors elected by the Board of Trustees are: Alfred Cowles, Dr. Roland W. Force, Clarence L. Frederick, Mrs. Helen Frederick, Walter S. Ross (posthumously), Mrs. Mary Brown Sturtevant, Roy E. Sturtevant, Mrs. Laura Wielgus, and Raymond Wielgus (for roster of Contributors see page 130). Gifts of materials received during the year are listed at the end of this Report (see page 117) and under the heading "Accessions" in the reports of the scientific departments (see pages 51, 56, 64, and 73).

EXPEDITIONS AND FIELD TRIPS IN 1960

The Museum conducted eight expeditions and field trips in 1960. Their work is described in this Report under the headings of the scientific departments (see page references below).

Expeditions and field trips and their leaders are:

DEPARTMENT OF ANTHROPOLOGY—*Formosa Anthropological Field Trip* (Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, see page 50); *Great Lakes Area Archaeological Field Trips* (George I. Quimby, Curator of North American Archaeology and Ethnology, see page 48); *Southwest Archaeological Expedition* (Dr. Paul S. Martin, Chief Curator of Anthropology, see page 43)

DEPARTMENT OF GEOLOGY—*Big Horn Mountains (Wyoming) Paleontological Field Trip* (Dr. Robert H. Denison, Curator of Fossil Fishes, see page 61)

DEPARTMENT OF ZOOLOGY—*Arizona Zoological Field Trip* (Dr. Fritz Haas, Curator Emeritus of Lower Invertebrates, see page 69); *Great Lakes Zoological Field Work* (Loren P. Woods, Curator of Fishes, see page 69); *Guiana Zoological Expedition, 1960-61* (Harry A. Beatty, see page 69); *West United States Zoological Field Trip* (Dr. Alan Solem, Curator of Lower Invertebrates, see page 69)

DEPARTMENT OF ANTHROPOLOGY

DEPARTMENT OF BOTANY

DEPARTMENT OF GEOLOGY

DEPARTMENT OF ZOOLOGY



CARVED
TEMPLE IDOL

COOK ISLANDS
POLYNESIA

FULLER
COLLECTION

Department of Anthropology

Research and Expeditions

The Southwest Archaeological Expedition completed another year of research near Vernon, Arizona (see page 40). A grant from the National Science Foundation (for investigation of the archaeology of the Upper Little Colorado River Drainage) made it possible to undertake special excavations, paleoecological studies, and archaeological reconnaissance, thus extending the scope of work, and the Museum is grateful for this assistance. A description of the various aspects of the summer's work follows.

The leader of the expedition was Dr. Paul S. Martin, Chief Curator of Anthropology, who was aided by Dr. John B. Rinaldo, Assistant Curator of Archaeology, and by William Alschuler, Miss Ellen Chase, David Herod, Gardner Lane, William A. Longacre, Mrs. Martha Perry, Pat Romane, James Schoenwetter, Roland Strassburger, and John Wells. John W. Saul III (Antioch College student) joined the expedition in midsummer and helped to close camp at the end of the season.

Three major projects were planned for the year: (1) archaeological excavations, (2) a paleoecological inquiry by means of pollen analysis, and (3) continuation of the archaeological survey in the Upper Little Colorado River Drainage. Seven sites, or areas of prehistoric occupation, were excavated. Reports on five of the excavations are given here.

1. The earliest excavated site, dated at about A.D. 300 by means of carbon 14 at the laboratories of the University of Groningen (The Netherlands), consisted of a small group of pit-dwellings located on a high mesa-top overlooking the Little Colorado River in a remote region far from roads. Crude double walls made of lava boulders span each end of the long, narrow, steep-sided mesa, forming "refuge areas" (or "keeps") behind which the Indians might have retreated to defend themselves from attack. The houses were crude shallow structures ringed about with boulders that had been tossed out when the floors were leveled off. These people lived by farming (analysis of sediments from the floor showed corn pollen) and augmented their diet by hunting and gathering. Curiously, they did not make pottery as did their contemporary neighbors fifty miles to the south, an anomaly that is not yet explained. These pit-houses, dating from a local prepottery era, are rare if not unique for this immediate area.

2. Several deep pit-houses that probably date at about A.D. 900 were excavated near St. Johns, Arizona. The abundance of fragments of painted pottery from this site are of peculiar interest because the designs may yield a clue to the antecedents of one of the most important later pottery types in the area—Snowflake Black-on-White.

3. Ten pit-houses with masonry walls were dug. These structures, which probably date at about A.D. 1000, are grouped close to each other but do not touch and may represent (1) a transition in architecture from subterranean pit-houses to dwellings completely above ground with walls entirely of masonry and floors at surface level and (2) a transition in village layout from the early period (pit-houses scattered at random over an acre or so) through a middle period (an amorphous cluster of closely grouped but not contiguous rooms [the Thode Site]) to a late era (neat rows of rectangular rooms sharing partition walls).

4. By A.D. 1100 ± 50 a way of life was developing that was to flower just before the coming of the Spaniards in 1540 and that still persists today among western pueblos. The early aspects of this development were shown by data secured from excavating dwelling rooms that were built at the beginning of this era (A.D. 1100). The site, called Rim Valley, is situated on the Hooper Ranch, Springerville, Arizona, on the edge of the canyon of the Little Colorado River. The Rim Valley structures are symmetrical in plan and the interiors of these structures are remarkably uniform in their architectural arrangements.

5. The largest and most impressive building dug during the summer was a Great Kiva that is part of the Hooper Ranch Pueblo (see Annual Report 1959, page 41). The Great Kiva is a large rectangular ceremonial room (45 feet wide, 50 feet long, and 7 feet deep) that was probably for religious and ceremonial use of the whole community, including possibly some satellite hamlets. Entrance to this subterranean structure was by a ramp that widened into a vestibule. The interior had a bench on all sides and two vaults flanking a central area in which was a fire pit. In line with one of the vaults and in the floor was a crypt containing a rare, if not unique, sacred image of sandstone, carved and painted to represent what may have been a cult deity. With the figure were a miniature water-jar and beads of colors that possibly were symbolic of the cardinal directions. The contents of the crypt and of some of the associated rooms may provide, in their rather specialized form and decoration, a link with a specific historic group that more unspecific elements (manos, axes, projectile points) could not furnish.

Twelve whole pottery vessels were recovered. These were in addition to approximately 8,000 sherds, 600 stone and bone tools, 2 skeletons, and wood and charcoal to be used for carbon-14 dating.

The archaeological survey that was begun in the 1959 season was continued as part of the expedition in 1960. During the two seasons William A. Longacre, field assistant in charge of the survey program, covered more than 5,000 miles by truck and made an intensive reconnaissance on foot of approximately fifty square miles. One hundred seventy new sites were discovered in the area, and surface collections of sherds and artifacts were made from each one. The location of each site was fixed on a topographic map and its extent, location, general setting, and condition were noted on cards for a complete working record.

Investigations indicate that the area of one thousand square miles in east-central Arizona covered by the survey was occupied at least by 2000 B.C. The earliest people depended upon hunting and gathering wild plants for a livelihood. Sometime before A.D. 300 corn-agriculture was introduced to the area and larger more permanent settlements became the rule. About A.D. 500 knowledge of making pottery and of building pit-houses penetrated the region, and in approximately A.D. 1000 a marked increase in both the size and number of settlements indicates an increase in population in the region. The dominant Mogollon nature of the material culture at this period suggests an influx of people from the south.

Throughout the entire region, choice of a place for settlement seems to have been closely related to the availability of water. Generally, the earliest sites tend to be located in higher areas (for example, on the sides of mesas) and the latest sites down in the stream valleys. The preference of early peoples for higher locations is not clearly understood, although there is some indication that defense was a factor. Later dependence upon agriculture would probably explain the settlement of people in the fertile and well-watered valleys of the region.

With aid from the National Science Foundation, a program of pollen analysis was initiated (pollen analysis is a method of determining past climates and vegetation by identifying the pollen that is successively deposited over past thousands and millions of years and, luckily, preserved in beds of lakes, in marshes, in soils, and, of course, in archaeological sites). James Schoenwetter, field assistant, spent three weeks at the Museum's archaeological field station at Vernon, Arizona, to collect samples of sediments from archaeological and geological localities in the area. Subsequently he extracted ancient pollen grains from the several hundred samples and prepared



SALISH
POST
FIGURE

NORTHWEST
COAST
UNITED
STATES

EDWARD E.
AND
EMMA B.
AYER
HALL

them for microscopic analysis at the Geochronology Laboratories of the University of Arizona, which generously made available its specialized facilities to the Museum. At present he is engaged in analysis of this material, identifying the pollen types present and compiling the statistical charts and diagrams that can be utilized for later interpretation. The Museum thanks Dr. Terah L. Smiley, Director of the Geochronology Laboratories, for consultive co-operation.

The objectives of this pollen research-project are threefold: (1) to obtain a record of the types of plants and from this to deduce the environment at those localities at different points in time, (2) to relate information about prehistoric environment to known archaeological features, and (3) to investigate changes in the nature and importance of agricultural plants at different periods.

Though the project is yet far from complete, some progress has been made on these objectives. Archaeological sites in the Pine Lawn (New Mexico) area, which has been of interest to the Museum for many years, yielded less pollen than had been hoped but show changes in environment over the past 1,500 years and attest to the presence of agriculture at an early period. Some findings were expected, such as the presence of corn pollen in prehistoric pit-houses, and demonstrate pre-existing hypotheses. Other finds were not expected, such as an increase in the amount of pine pollen during a late period in the record, a discovery that might represent altitudinal or latitudinal movement of the pine forests that are now extensive in the area.

The few samples from sites so far analyzed for the Vernon (Arizona) area have also been productive. Changes in the amount of corn pollen associated with various sites have revealed changes in the economics of prehistoric peoples that may be correlated with periods of environmental change. Some of the reasons for the basic patterns of prehistoric pueblويد life are coming to light as we observe fluctuations in the environmental record and corresponding settlement and abandonment of habitation sites.

As yet less than half of the sediment samples have been analyzed and therefore interpretations cannot be formulated. There is ample evidence, however, that this research will be a milestone in the use of palynological studies in archaeological research in the United States and in understanding the cultures and cultural dynamics of the prehistoric Southwest.

The Museum expresses its thanks to Robert Hooper (Springerville), Alfred H. Goesling (St. Johns), Frank Stradling (Concho), Earl Thode (Vernon), and Pacer Wiltbank (Eager) for permission to excavate on their lands in Arizona.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, continued his analysis of data and materials gathered in 1956 during the archaeological expedition to Casma Valley, Peru, and completed a preliminary report. At the time of the death of Dr. A. L. Kroeber, Research Associate in American Archaeology, the study of Nasca pottery from Peru in which Dr. Kroeber and Curator Collier had been collaborating was three-fourths completed, and Curator Collier will finish this work. During a two-month trip to attend international anthropological meetings in Vienna and Paris (see page 83), made possible by a National Science Foundation travel grant, Curator Collier studied exhibits and collections from Peru and Mexico in ethnological museums in Austria, Switzerland, France, and England.

George I. Quimby, Curator of North American Archaeology and Ethnology, continued research on problems of archaeology, geochronology, and environment in the Upper Great Lakes region, concentrating on events and phenomena of the period between A.D. 1000 and 1700. He made study trips to museums and universities in Michigan, Illinois, and Wisconsin, examined private collections of artifacts, and conducted field research in various parts of upper and lower Michigan and northeastern Wisconsin (see page 40). In Oceana County, Michigan, Curator Quimby surveyed and mapped an important late Woodland mound site. Test excavations were made in this site as well as in village sites of the same county. In the upper peninsula of Michigan surface collections were obtained from sites between St. Ignace and Menominee in the northern Lake Michigan basin. It was tentatively concluded that the pottery styles and types of arrowheads were similar throughout this region in late Woodland times.

Phillip H. Lewis, Associate Curator of Primitive Art, is attempting to create a working definition of primitive art that may be acceptable to art historians and to anthropologists. The problem of definition is both philosophical and practical. Too often the term *primitive art* has been used as an inclusive category into which is thrown all art that is non-European. Delimitation and definition of the field of study are necessary, especially for the practical purpose of selecting specimens for the Museum's new Hall of Primitive Art (Hall 2, Edward E. and Emma B. Ayer Hall).

Associate Curator Lewis has developed the theoretical position that (1) primitive art is art that is produced and used by members of primitive societies and that (2) the art of certain societies often included in primitive art should be excluded from the field of study as a different entity (excluded would be the art of the Indian civili-



BIRDSTONES OF BANDED SLATE

UPPER GREAT LAKES REGION FROM 1500 B.C. TO 100 B.C.

TURKEY-TAIL BLADES OF CHIPPED FLINT



zations of Middle and South America and of certain West African indigenous states). A main difference between civilized and primitive societies, as far as art is concerned, is the differential specialization of the artist: the professional artists of civilized societies produce one kind of art and the part-time artists of primitive societies produce another kind. In the Hall of Primitive Art, only the work of artists of primitive societies will be shown.

During the year Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, carried on a program of research in Taiwan (Formosa), China, specifically pursuing his interest in the subject of Chinese ink-rubbings and generally acquainting himself with the anthropology of the island and its diverse peoples (see page 40). The study trip was made possible by a Grant for Research on Asia, sponsored jointly by the American Council of Learned Societies and the Social Science Research Council, with funds provided by the Ford Foundation and supplemented by the Museum. On his way to Taiwan, Curator Starr stopped for study in Hawaii, Japan, and Okinawa, and on his way back to the United States at the end of his six-month stay in Taiwan he visited Hong Kong, Vietnam, and Cambodia, where he spent several days at the famous ruins of Angkor. Then, moving gradually north and westward, he stopped in Thailand, Burma, and India and briefly visited various historic centers in the Near East and Europe.

During the first months of the year Assistant Curator Rinaldo joined efforts with Chief Curator Martin in preparing a report on two Pueblo Indian villages in eastern Arizona. Analysis of data provides additional clues that the growth of this prehistoric culture was strongly influenced by other Mogollon cultures from the southeast and by Chaco culture from the northeast and that ultimately certain Mogollon elements were incorporated into the cultures of the Hopi and Zuni.

Allen S. Liss, Custodian of Collections, participated in excavating the Cahokia village site near East St. Louis, Illinois, a project sponsored by the Illinois Archaeological Survey under the Illinois Archaeological Highway Salvage Program and carried on jointly by the University of Illinois, Southern Illinois University, Illinois State Museum, and Illinois Highway Department. Cahokia, which is one of the largest archaeological sites in North America and originally included several hundred mounds and a number of large villages, lies directly in the path of one of the new interstate highways under construction in Illinois and had already been partially destroyed. Three areas of greatest prehistoric Indian occupation that are to be destroyed were excavated under the Salvage Program.

Custodian Liss worked with the University of Illinois field crew that excavated one of these areas: a large village area east of the main ceremonial center of the site that was found to contain more than fifty houses constructed of spaced vertical poles set in the ground (it is assumed that this framework was covered with bark or matting). Several thousand sherds, tools of bone and stone, and quantities of unworked animal bones were recovered from the village that had been occupied by several groups of people. Stratified deposits plus carbon-14 dates to be derived from charred wood samples will yield considerable information concerning the former inhabitants of this Cahokia area of Illinois between A.D. 800 and 1400.

Accessions—Anthropology

An extremely rare and valuable Polynesian temple idol has been added to the Fuller Collection of archaeological and ethnological materials from the Pacific area (see Annual Report 1958, page 21). The idol is from the Cook Islands and was presented by Captain and Mrs. A. W. F. Fuller following its purchase at a London auction sale in June. Before its discovery at the sale by Captain Fuller, only eight other such specimens were known to exist. All of these (which are sometimes called carved slabs) are in museums outside the United States. The idol (see page 42) will be exhibited in Hall F (Polynesia and Micronesia).

A generous gift of 64 African art and ethnological specimens came from Mr. and Mrs. Clarence L. Frederick (each of whom was elected a Contributor of the Museum this year). This material will make possible better representation of Africa in the Hall of Primitive Art (see page 48) and will greatly enrich the Museum's African ethnological collections.

The collections of the Division of Asiatic Archaeology and Ethnology were notably enhanced during the year by a group of materials brought back from Taiwan by Curator Starr (see page 91) and by an outstanding collection of Chinese textiles purchased by the Museum from Dr. Carl Schuster. The materials from Taiwan include eleven rare rubbings—ink-on-paper copies of ancient stone inscriptions, one of which is a copy of a stone inscription of the Sung period (A.D. 960–1280) cut in memory of K'ung Chou, a lineal descendant of Confucius who died in A.D. 163 (this tenth- to thirteenth-century copy of a second-century inscription is one of the oldest and rarest of such rubbings in the United States). The excellent collection of textiles acquired from Dr. Schuster represents types

of textiles from widely separated regions of China and exemplifies a variety of techniques, including tie-dying, but with examples of what commonly is known as blue-thread work composing the largest portion. These are cotton pieces abundantly decorated in blue thread with folk-art motifs traditional among the peasantry of West China. This collection, numbering more than 900 pieces in all, is the largest, most selective, and best documented group of such textiles in the United States (see page 116).

Care of the Collections—Anthropology

Cleaning, checking, and moving the Mexican collection into Room 35 was continued by Custodian Liss under the direction of Curator Collier, assisted during the year by David de Kadt and Paul Edgett (Antioch College students) and Ralph Holmes and Miss Carol J. Murphy (volunteers). Expansion and reorganization of the study collection of textiles of the world were continued.

During the year an inventory of each drawer of specimens was completed for the Pacific Research Laboratory by Miss Barbara Bruckner and Miss Margaret Shurrager (volunteers). Portions of the study-storage collections in the Pacific Research Laboratory were rearranged to permit incorporation of the Polynesian materials of the Fuller Collection (see page 51). Cataloguing and processing approximately 2,500 specimens from the Fuller Collection was completed by Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, who was aided in these tasks by Howard Anderson (assistant), Dennis Puleston (Antioch College student), and Miss Bruckner and Miss Shurrager.

Dr. Hoshien Tchen, Consultant, East Asian Collection, continued his work of cataloguing the Museum's large collection of Chinese rubbings, most of which was acquired many years ago by Dr. Berthold Laufer. This year Dr. Tchen bent his energies to completing the catalogue of rubbings of tomb reliefs dating from the Latter Han period (A.D. 25-220), those of the Wu Liang offering-shrines in north-east China being best known. This cataloguing included details such as translation of all inscriptions, identification of all pictorial elements, and explanatory notes. Apart from processing these rubbings of tomb reliefs, he catalogued a series of rare rubbings from Taiwan that required translation of many handwritten notes and identification of seal signatures of famous Chinese scholars. As these rubbings have been processed they have been placed into new cabinets acquired specifically for them.

Exhibits—Anthropology

Under the direction of Curator Force a major renovation of Hall F (Polynesia and Micronesia) was begun. Artist Gustaf Dalstrom, Miss Susan Schanck, an artist brought in for the project, and Preparator Walter C. Reese assisted with installation of fourteen new exhibits (Hawaii—4, Marquesas Islands—3, Society Islands—1, Cook and Austral islands—1, Easter Island—3, and New Zealand—2), all of which rely heavily on materials from the Fuller Collection (see page 51). Several new exhibit cases and a large map-panel were designed and installed by the divisions of Maintenance and Engineering, and E. John Piffner, Staff Artist, began a mural map showing the cultural areas of Oceania. Dioramist Alfred Lee Rowell started work on a diorama of a Palauan village that ultimately will be installed in Hall F.

Installation of exhibits in the Hall of Primitive Art (Hall 2, see page 48) began during the year under the direction of Curator Lewis, who was assisted by Walter Boyer, Ceramic Restorer, with the divisions of Maintenance and Engineering performing their usual herculean tasks of painting, lighting, rebuilding, and building exhibit cases as needed. The theme of the first exhibit is "The Human Image in Primitive Art." The human image is a favorite motif in primitive art that occurs in almost all cultures of the world. A sampling of this motif, therefore, will provide a cross-cultural view of primitive art, and, since the subject-matter is *man*, each viewer will be able to judge for himself the degree of abstraction from or conformity to this universal subject.

Curator Collier with the help of Artist Dalstrom prepared three new exhibits for Hall 8 (Ancient and Modern Indians of Mexico and Central America): two deal with Aztec sculpture and one is a chronological chart showing cultural periods of Mexico and their dates. "A Prehistoric Irrigation System," a new exhibit for Hall 7 (Ancient and Modern Indians of the Southwestern United States) was prepared by Assistant Curator Rinaldo and Artist Dalstrom. Toward the end of the year Curator Starr, with the co-operation of the Division of Maintenance, began renovating Hall 24 (George T. and Frances Gaylord Smith Hall, Ancient Chinese Civilization). The work, which is the first major renovation of this important hall since 1933, will include repainting the interiors of the exhibit cases, cleaning the glass, and installing additional lighting.



MODEL
OF
MYRTLEWOOD
BRANCH

Department of Botany

Research and Expeditions

Dr. Margery C. Carlson, Associate in Botany, spent the first three months of the year in Mexico collecting plants belonging to the Loranthaceae (mistletoes). She will determine whether or not these mostly parasitic plants are specific on certain hosts.

J. Francis Macbride, Curator of Peruvian Botany, completed for the *Flora of Peru* his treatment of the Boraginaceae, Verbenaceae, Labiatae, and Nolanaceae, which was published by the Museum (see page 99). Completed, but held for current changes, were manuscripts for the Begoniaceae and Solanaceae.

Dr. Earl E. Sherff, Research Associate in Systematic Botany, continued his observations and study of subtropical vegetation in Florida. He identified for other collectors plants in certain groups in which he has specialized.

Dr. Rogers McVaugh, Curator of Vascular Plants at the University of Michigan and Research Associate on the staff of the Museum, continued work on his critical catalogue of the Sessé and Mociño collection of Mexican plants. These plants are on loan from Madrid.

The Curator Emeritus of Botany, Dr. B. E. Dahlgren, in collaboration with Dr. Sidney F. Glassman of the University of Illinois (Navy Pier, Chicago) completed for publication a manuscript on the wax palms of South America. In preparation is a manuscript on the wax palms of Cuba.

Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, continued preparation of a critical catalogue of the Muhlenberg Herbarium. A problem in this study is identification of the collectors of the plants and thus indirectly the localities of collection so that the type specimens on which the Muhlenberg plant-names are based may be established. The approach has been to compare with the incomplete labels on the specimens photographs of authentic samples of the handwriting of various botanists, as contained principally in the Gray Autograph Collection (Harvard University) and in correspondence on file at the Academy of Natural Sciences of Philadelphia where the Muhlenberg Herbarium is kept on deposit for the American Philosophical Society. Final designation of the type specimens of many species in the Muhlenberg Herbarium cannot be made without consulting the Willdenow Herbarium in Berlin-Dahlem because many Muhlenberg species of the Gramineae and

Cyperaceae were described in the Willdenow edition of the *Species Plantarum* and the holotype is consequently in his collection. Dr. Smith initiated research on genera of the Meliaceae (other than *Cedrela*) in order to prepare a section on the Meliaceae for the *Flora of Panama* that is being published by Missouri Botanical Garden.

Dr. John W. Thieret, Curator of Economic Botany, continued his analyses and identification of collections obtained in 1959 during the Northern Great Plains Botanical Field Trip, prepared a number of entries of Scrophulariaceae for the *Index Nominum Generi-corum* (Utrecht), and completed a revision of the Scrophulariaceae—Buchnereae of Central America. In September he was accompanied by Dr. Robert Evers, of the Illinois Natural History Survey, on a short study-trip through grasslands of Nebraska and Kansas to collect grasses and to observe prairie vegetation in its autumnal aspect.

Dr. Louis O. Williams, Associate Curator of Central American Botany (who was appointed to the staff in September), began the task of checking, up-dating, and, when necessary, rewriting unpublished manuscript of the *Flora of Guatemala*, of which nine parts comprising 3,902 pages have been published (this flora is approximately half finished). He also made determinations of miscellaneous plant materials from Central America.

Miss Edith M. Vincent, Research Librarian, assisted staff members, correspondents, and workers from other institutions by locating botanical information for them.

Accessions—Botany

The largest gifts to the herbarium of vascular plants were 3,980 plants of the United States collected, identified, and presented by Miss Nellie V. Haynie and 3,566 plants of the United States collected, identified, and presented by Holly Reed Bennett. Among the largest and most interesting collections acquired through exchange were 980 specimens of vascular plants of Africa and Asia from Muséum National d'Histoire Naturelle, 640 plants of Mexico of the Pringle Collection from the University of Vermont, and 292 slides of various pollens prepared by the Pan American Petroleum Corporation (Tulsa) from material furnished by this Museum. A very good collection of 477 plants of South America was purchased from Professor H. S. Irwin (University of Texas). The cryptogamic herbarium received as a gift from Dr. William L. Culberson (Duke University) two type specimens of *Parmelia confoederata* Culberson and *Phyiscia culbersonii* Thomson.



"ROSES" (DETAIL)

FOLIO PRINT
FROM
THORNTON'S FAMOUS
BOTANICAL WORK
"THE TEMPLE OF FLORA"

The Museum received from the estate of the late Walter S. Ross of Chicago 32 framed aquatint folio prints of flowers from the famous botanical work *The Temple of Flora*, which was published in London by Robert J. Thornton, noted English physician and botanist. The prints, dating from 1798 to 1807, had been purchased by Mr. Ross from James Tatman of Chicago, who had secured them from Lady Jill Strathearn of London.

Care of the Collections—Botany

Associate Curator Smith spent the greater portion of curatorial time locating, identifying, and collating duplicate specimens of vascular plants to send in exchange to other institutions (6,760 specimens have been shipped). All folders containing Illinois plants, which until now have been kept together as a separate herbarium, were inserted in the general herbarium, and the families and genera of Gymnospermae were brought together in the cases where they are now more easily consulted as a group. Robert J. Reich, Custodian of the Herbarium, Mrs. Jennie Pletínckx, and, for part of the year, Dr. K. S. Rai (graduate student) assisted in sorting and filing specimens. Mrs. Dorothy Gibson, Departmental Secretary, initiated the preparation of slides of floral dissections as an aid in identifying the large numbers of undetermined specimens that have accumulated over a period of years.

Mrs. Lenore B. Warner completed preparation of a generic index for the collection of photographs of type plant-specimens so that there are now numerical, generic, and family indexes to the more than 50,000 type-photographs in the collection. A total of 7,872 type-photographs was sent in exchange and 2,271 new negatives were added to the files. Reorganization of the collection of photographs of plant models, plant exhibits, and living plants and habitats consisting of some 80,000 negatives was completed by Mrs. Gibson.

Dr. Patricio Ponce de León, a cryptogamic botanist (formerly Professor of Botany at the University of Havana and Conservator of the Museum of the Havana Jardín Botánico), began in November a survey of the several sections of the cryptogamic herbarium. He will determine and proceed on steps necessary to place the cryptogamic collections in good order based on generally accepted systems of classification.

A total of 22,708 vascular plants was mounted and added to the herbarium. An effort was made to place in the herbarium all Central and northern South American material held in storage so that

it would be available for the use of Associate Curator Williams in his preparation of the *Flora of Guatemala* (see page 56). Miss Alice Middleton, aided for part of the year by Miss Suzy Slavin, Antioch College student, and by other student assistants, mounted specimens. Eleven senior Girl Scouts of the South Cook County Council, directed in a Museum Aid Project in plant mounting by Custodian Reich and Mrs. Gibson, contributed a total of thirty-six hours of service on six alternate Saturdays.

Exhibits—Botany

Upon completion early in the year of reorganization of the Hall of North American Trees (Hall 26, Charles F. Millspaugh Hall) Curator of Exhibits Emil Sella and Technician Frank Boryca, assisted by Artist Dean Randall, returned to the task of preparing and assembling the many leafy fronds needed for the full-size model of the fossil cycadophyte (*Cycadeoidea ingens*) that was started some years ago. After most of the intricate lacelike flowers had been completed, work on the model was stopped to allow staff members of the Plant Reproduction Laboratory to devote full time to urgent reconditioning of other botanical exhibits. Soon to be completed, the reconstruction will be exhibited in Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life). The reproduction of a fruiting branch of myrtlewood (*Umbellularia californica*) for the exhibit of the Laurel family in Hall 29 was prepared by Technician Boryca.

Plans for revising the exhibits of useful plants and their products in Hall 25 and Hall 28 were developed by Curator Thieret in consultation with other members of the staff. Exhibits of natural lacquers and lac, cork, and natural resins were revised and reinstalled jointly by Curator Thieret, Preparator Walter Huebner, and Artist-Preparator Samuel H. Grove, Jr., in an effort to make our exhibits of economic botanical materials educationally effective as well as pleasing. Closing the windows in Hall 25 and installation of fluorescent case-lighting have enhanced the appearance of the hall. Eventually this hall will contain exhibits dealing with plant anatomy, physiology, genetics, and other aspects of botanical sciences.

MAMMOTH



REINSTALLED IN ERNEST R. GRAHAM HALL

Department of Geology

Research and Expeditions

Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, continued their work on the Mecca black-shale study (see Annual Report 1959, page 59). During the year a number of aspects of the problem were described in manuscript, along with topographic illustrations, text illustrations, and charts. Work in the laboratory included printing numerous X-ray plates with an electronic printer purchased last year with National Science Foundation funds, identifying much of the invertebrate material that had been collected in previous years in Parke County (Indiana), and regrouping the entire vertebrate collection from Mecca and Logan quarries in order to compare the mode of preservation and the nature of the fossil remains.

Early in spring Curator Richardson and Curator Zangerl arranged another field conference with members of the Indiana Geological Survey in an effort to clarify some complex stratigraphic problems in Parke County. Present commercial stripping in the Dee Clay Pit (about a mile east of Logan quarry) exposed the same black-shale horizon, but here the shale proved to be a freshwater deposit containing an entirely different fauna from that at Logan quarry. A small excavation in the Dee Pit (known as Garrard quarry) to get an adequate sample of the fauna was made during two weeks early in summer by Curator and Mrs. Zangerl and Dr. Archie MacAlpin, of the Department of Geology of the University of Notre Dame. Later in the summer Curator Zangerl, D. Dwight Davis, Curator of Vertebrate Anatomy at the Museum, and Stephen Collings, of Rockville, Indiana, spent another week quarrying the recent exposure, and Curator Davis produced some excellent photographs of quarry activities.

Dr. Robert H. Denison, Curator of Fossil Fishes, continued his study of the Cyathaspididae, a family of Silurian and Devonian jawless vertebrates. In addition to a general revision of the group, he prepared descriptions of new material from the Yukon, New Jersey, and Pennsylvania.

During June and July, Curator Denison and Curator Richardson collected at a new Lower Devonian locality in the northern part of the Big Horn Mountains of Wyoming (see page 40). They were assisted by their sons and John Cutler, a geology student from the University of Wyoming. A small quarry was opened on the side of

a canyon in limestone that had been deposited in an ancient stream or estuary. A large collection of fossil fishes was obtained, of which most notable are lungfishes, the oldest known specimens of this group with the exception of a single skull from Europe. In addition, the quarry yielded well-preserved plants, which are being studied by Dr. Erling Dorf of Princeton University, and eurypterids, which are being described by Erik N. Kjellesvig-Waering, Research Associate.

George Langford, Curator of Fossil Plants, made steady progress in his study of selected groups of Paleozoic and Mesozoic plants and continued his work on systematic classification, noting the characteristic features of certain new species and recording them with appropriate illustrations. He also spent considerable time in correcting and revising specimen labels.

William D. Turnbull, Assistant Curator of Fossil Mammals, continued his studies of the mammalian fauna of the Eocene Washakie formation and, in this connection, looked over the materials from this formation in the collections at Princeton and Yale universities and at the American Museum of Natural History. Assisted by Harold Hinds, a student volunteer, he examined some of the ant-hill concentrates from the Lower Washakie beds of southern Wyoming and sorted out the tiny teeth and bones of rodents and insectivores. He also completed the descriptive portion of his study of the various adaptive types of mammalian masticatory mechanisms and, in collaboration with Dr. Charles A. Reed (of the College of Pharmacy, University of Illinois), worked on some Oligocene and mid-Miocene vertebrate microfossils from Nebraska.

Dr. Edward J. Olsen, Associate Curator of Mineralogy, who joined the Museum staff in September, immediately began three major projects, two of which were completed and reports prepared. He is currently engaged in initial calculations on the theoretical significance of low temperature compositional relations in two magnesium silicates.

Early in August, on his way to Copenhagen to attend the International Geological Congress (see page 85), Dr. Sharat K. Roy, Chief Curator of Geology, spent a week in the field in the mineral-rich area around Kragero (south Norway) and collected several specimens of rose-colored manganapatite and one of beautifully radiating crystals of pyroxene, both of which minerals were not represented in our collections. In the field his attention was drawn to the fall of a meteorite in 1928 on a farm on the nearby island of Oteroy, which he visited to see the exact spot where the meteorite fell. The owner of the farm related the circumstances of the fall and said that Professor C. T. Johne of Kragero might still have a sample of the

DR. OLSEN
IN THE
CHALMERS
MINERALOGICAL
LABORATORY



meteorite. Through the assistance and interest of Mrs. Wencke Hasselgren, owner of the neighboring island, Chief Curator Roy was able to locate Professor Johnne, who indeed had in his possession a few fragments of the meteorite and who generously donated most of them to the Museum. Grateful acknowledgement is made to Professor Johnne and to Mrs. Hasselgren. The Oteroy meteorite is currently being studied. Two other meteorites (the Springwater pallasite, in which a new phosphate mineral was found, and the Walters meteorite) were studied. Work on chondrules continued.

Bertram G. Woodland, Associate Curator of Petrology, completed a study of the nature and origin of small-scale structures in the rocks of an area in northeast Vermont and worked on the metamorphic history of the rocks and on the petrography of a series of basic dikes in the same area. He collaborated with Chief Curator Roy on the new phosphate mineral Farringtonite found in the Springwater meteorite and also made chemical analyses of the major constituents of a rock sample from volcan San Vicente (El Salvador) and of a basic dike rock from northeast Vermont. Partial analyses were made of five shale samples from the Mecca and Logan quarries to provide data on variations in their organic content for the Mecca project (see page 61). In collaboration with the Museum's Department of Anthropology he made petrographic studies of some forty thin-sections of sherds collected in 1959 by the Southwest Archaeological Expedition and of a few sherds from other localities, aided in identifying materials of various artifacts, and, after investigating the corrosion of bronzes in the collection, advised on treatment. Kenneth Rippere and Robert Hausman, Antioch College students, helped with work of the Division of Mineralogy and Petrology.

Miss Maidi Wiebe, Departmental Artist, spent three weeks on a tour to study the prehistoric art of the Ice Age in the caves of Dordogne in France (Lascaux, Les Combarelles, Font-de-Gamme, and Pech Merle) and of El Castillo and Altamira in Spain.

Accessions—Geology

In the collections made at Garrard quarry in Parke County, Indiana (see page 61), many small paleoniscoid fishes have been discovered that are outstanding because of their nearly perfect state of preservation (associated with them are numerous freshwater prawns). An articulated but incomplete shark, which is related to modern basking sharks, was purchased from Marion C. Bonner, who collected it in the Cretaceous Niobrara formation of Kansas. Two additions to



FOSSIL FISHES
AND EURYPTERIDS
WERE COLLECTED IN
THIS CANYON

PALEOZOIC LIMESTONE CLIFFS
AT MOUTH OF
COTTONWOOD CANYON IN
BIG HORN MOUNTAINS
OF WYOMING
TOWER ABOVE
MUSEUM FIELD TRUCK

the collection of fossil mammals are the almost complete skeleton of an American mastodon from northern Indiana (gift of Karl H. Huppert, on whose property the specimen was found) and forty-nine casts of South American Tertiary mammalian and bird remains that were acquired in exchange with La Plata Museum in Argentina. Among accessions of fossil invertebrates twenty-four pyritized Pennsylvanian snails (*Shansiella carbonaria*) from Illinois (gift of J. L. Cunningham) are examples of the most elegant form of mineral replacement of a fossil shell, every detail of the original ornament being preserved in bright brassy pyrite.

Representatives of fourteen different falls of meteorites were added to the collection, twelve of which were received through exchange and two as gifts. All the meteorites are new to the collection and may be considered a very satisfactory addition in any one year.

A noteworthy purchase through the Chalmers Crystal Fund is a sample of the rare mineral holmquistite that is so large that portions of it will provide excellent material to exchange with other museums. A collection of minerals from a unique deposit at Ivigtut, Greenland, was received in exchange with the Mineralogical Museum of Copenhagen, and an extensive suite of igneous and metamorphic rocks, which Associate Curator Woodland collected during a field trip in western Norway preceding the International Geological Congress (see page 85), was given by him to the Museum.

Care of the Collections—Geology

David Techter, Assistant in the Division of Fossil Vertebrates, cleaned, prepared, and catalogued several lots of Texas Permian pelycosaurs and *Eryops* received from the University of Chicago and, upon completion of this project, the entire Walker Museum Collection was virtually integrated into our own. Considerable time also was spent in sorting and cataloguing the Cretaceous fish from Alabama that are currently being studied by Shelton P. Applegate, many of which he gave to the Museum.

The extensive Nelson Collection of fossil invertebrates has now been completely unpacked and sorted. The Cenozoic mollusks from the east coast of the United States are being identified and catalogued by Chih-wei Pan, part-time assistant. The remainder of the Nelson Collection of minerals was checked and about a hundred specimens were selected for the study collection. With the help of Miss Judith Linder and Kenneth Rippere, Antioch College students, a complete card index of the lithology collection was prepared.

The Paleontology Laboratory has placed in operation the equipment for making copper replicas of fossils. This process ("electroforming"), which is essentially the same operation that is used to make copper plates for high-speed printing, quickly reproduces a specimen or reconstructs one from a natural cast in durable and readily studied form that is greatly superior to plaster casting.

Exhibits—Geology

Ernest R. Graham Hall (Hall 38) has been considerably transformed with the rearrangement and reinstallation of a number of fossil-mammal exhibits. The mammoth and mastodon skeletons were reinstalled by Chief Preparator Orville L. Gilpin and Preparator Ronald J. Lambert and mounted on a single base, and a skeleton of a dawn horse (*Hyracotherium*) was assembled by Preparator Lambert for the exhibit of fossil horses.

During the year a program of reinstallation was begun in the Hall of Economic Geology (Hall 36) to bring the exhibits up to date, giving special emphasis to minerals that have increased in economic importance. Ten exhibits were dismantled and reinstalled with new backgrounds and revised labels, and, where necessary, specimens were replaced by better ones. Considerable time was spent on plans for reinstallation and renovation of H. N. Higinbotham Hall (Hall 31, Gems and Jewels), which include refinishing the interior and exterior of the exhibit cases and adding new specimens acquired by the Museum in recent years.

The exhibition program was carried on by Harry E. Changnon, Curator of Exhibits, Associate Curator Woodland, Assistant Henry Horback, and Preparator Henry U. Taylor. Illustrations were ably done by Miss Maidi Wiebe, Departmental Artist.

TREE SNAIL (LIGUUS)



IN THE MUSEUM COLLECTIONS

Department of Zoology

Research and Expeditions

Staff members were afield, gathering material and data in the United States, Africa, southern Asia, and the Philippines. We also had an expedition in South America by a nonstaff member.

DUTCH GUIANA. Harry A. Beatty, of New York, who has so successfully collected for us in Liberia, Gabon, and Angola in years past, was engaged to lead the Guiana Zoological Expedition of 1960-61 in Surinam (Dutch Guiana) (see page 40). He started on July 15 to collect birds and mammals in unworked parts of the interior, especially in the isolated Wilhelmina Mountains and the virtually unexplored Tumuc-Humac range on the Brazilian frontier.

UNITED STATES. Associate Curator Henry S. Dybas spent a week examining insect fauna of caves in Illinois, Indiana, and Kentucky in company with Dr. Karl Krekeler of Valparaiso University and Richard Powell of Indiana University.

Curator Loren P. Woods made several field trips in the Great Lakes region for local fishes (see page 40): off Port Washington, Wisconsin, in June; off Grand Haven, Michigan, in August (on the United States Fish and Wildlife Service motor vessel *Cisco*); and in the Lake Huron and Lake Superior areas in September and October.

Curator Emeritus Fritz Haas made representative collections of mollusks in the Chiricahua Mountains in Arizona (see page 40), and Curator Alan Solem also made a field trip in the western states to collect mollusks from type localities (see page 40).

NEPAL. Field Associate Robert L. Fleming, who is with his Mission in Nepal, found some time to continue his natural-history collecting, especially birds (see page 24).

PHILIPPINE ISLANDS. Associate D. S. Rabor, during vacation time from his teaching duties in Silliman University in the Philippines, led an expedition to extreme northeastern Luzon, one of the least-known parts of the island, to collect birds.

EGYPT. Research Associate Harry Hoogstraal, who is still stationed in Egypt, continued to send collections of animals.

DIVISION OF BIRDS. Curator Emmet R. Blake has completed a revision of the American crows and jays and has begun a revision of the American family Icteridae (blackbirds, orioles, etc.), both for the series of volumes continuing Peters' *Check-list of Birds of the World*. For the same series Chief Curator Austin L. Rand has nearly finished the section on the family Nectarinidae (sunbirds)

and during the year has had published two sections in this series: on the Laniidae (shrikes) and on the African Pycnonotidae (bulbuls). Curator Blake continued work on his checklist of birds of British Guiana and, in the course of this work, investigated various South American species, one result being a revision of the South American short-eared owls (to be published in Colombia).

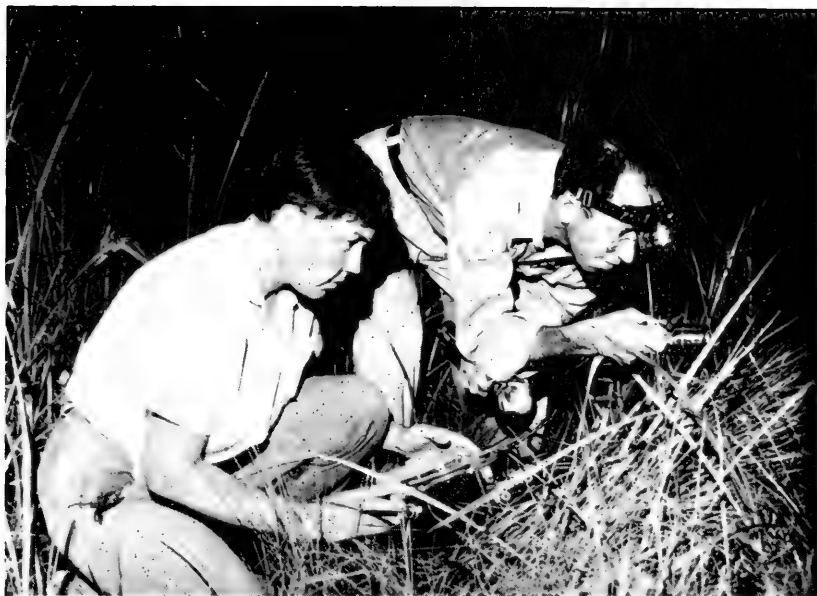
Chief Curator Rand revised the American short-tailed hawk, investigated the tongue shape in flowerpeckers and related honey-eating birds, and worked on the taxonomy of Philippine birds. He began work on a handbook of birds of New Guinea, with E. T. Gilliard of the American Museum as co-author.

Associate Curator Melvin A. Traylor, Jr., has continued taxonomic studies of African birds in preparation of his checklist of birds of Angola (aided by a grant from the National Science Foundation). He co-operated with Research Associate Hoogstraal in a study of migratory birds of Egypt that are hosts to arthropod parasites (to be published by World Health Organization) and worked with Field Associate Fleming on further studies of Nepal birds.

DIVISION OF MAMMALS. The checklist of South American mammals that is being prepared by Curator Philip Hershkovitz (aided by a grant from the National Science Foundation) has been enlarged to include all marine mammals (whales, etc.) occurring in the Atlantic and Pacific oceans south of the Tropic of Cancer. Work has continued on revising certain groups of South American mammals, notably rodents, primates, and deer. Assistant Curator Karl Koopman is continuing his studies of bats of North Africa.

DIVISION OF FISHES. Curator Woods continued his taxonomic studies of marine fishes of the Gulf of Mexico, Caribbean Sea, and the Atlantic Ocean off northeastern South America, completing descriptions of a new species of flatfish and a new species of primitive deep-water spiny-rayed fish. Associate Marion Grey continued her interest in the family Gonostomatidae, studying a small collection of these fishes that were killed by the lava-flow of the Mauna Loa (Hawaii) eruption of 1953.

DIVISION OF REPTILES AND AMPHIBIANS. Curator Robert F. Inger continued his studies of reptiles and amphibians of Borneo (supported in part by a grant from the National Science Foundation) and of amphibians of Parc National de la Garamba (Congo). Also, with the collaboration of Chin Phui Kong of the Department of Agriculture, Colony of North Borneo (aided by a grant from the National Science Foundation) Curator Inger completed a study of the freshwater fishes of North Borneo. With Assistant Curator Hymen Marx he completed the analysis of food habits of Congo



CURATOR AND MRS. INGER RECORD FROG CALLS
IN THE CONGO



amphibians and continued a revision of a genus of snakes, and with Dr. Bernard Greenberg, of Roosevelt University, he continued a study of the reproductive cycle of a Borneo frog, based on material collected at various seasons by Tom Harrisson of Sarawak.

DIVISION OF INSECTS. Curator Rupert L. Wenzel spent most of his research time on bat flies of the families Streblidae and Nycteribiidae of Panama, a study that he is making in collaboration with Captain Vernon J. Tipton of the United States Army. Curator Wenzel completed a manuscript on these families for a monograph to be published by the United States Department of Agriculture. Associate Curator Dybas continued research on feather-winged beetles (family Ptiliidae) and completed the description of a new fossil species from Baltic amber.

Research Associate Charles H. Seevers completed part of his monographic study of the rove beetles that are guests of ants (this is a companion study to the monograph on the rove beetles that are guests of termites that was published by the Museum three years ago). In collaboration with Curator Wenzel, Associate Harry G. Nelson began a description of a new beetle with piercing-sucking mouthparts and also studied the taxonomy of certain dryopoid water beetles (genus *Elsianus*). Associate Lillian A. Ross continued her studies of spiders.

DIVISION OF LOWER INVERTEBRATES. Curator Emeritus Haas reviewed the vertiginid land mollusks of the Dutch West Indies, continued studies of South American mollusks, and, with Curator Solem, reported on landsnails from British Honduras. With F. F. Laidlaw of Suffolk, England (whose fine collection of Malayan landsnails was purchased by the Museum in 1958), Curator Solem completed a revision of the Indonesian landsnails of the genus *Amphidromus*. Curator Solem made considerable progress in studying specimens and compiling material for a review of Panama nonmarine mollusks to be based largely on specimens collected by Solem and Dybas on their expedition in 1959 to Panama. Assistant Ernest J. Roscoe continued study of the mollusks of the pluvial Lake Bonneville in Utah and began an annotated list of recent and Pleistocene mollusks of Utah as part of a project directed by Dr. Aurele La Rocque of Ohio State University to produce a modern checklist of North American mollusks.

DIVISION OF ANATOMY. Curator D. Dwight Davis continued his studies of the comparative anatomy and evolution of the Carnivores. Research Associate Waldemar Meister carried on studies of the histological structure of the long bones in penguins, and Research Associate R. M. Strong continued study of anatomy of birds.

Accessions—Zoology

Growth of our collections continued, as is indicated by the following totals for the year's accessions: mammals—1,484; birds—4,659; amphibians and reptiles—3,181; fishes—2,696; insects—113,985; lower invertebrates—56,108; and anatomical material—45 specimens. As usual, this material came as exchanges, gifts, or purchases or was collected by our expeditions, and the size of an individual accession varied from a single specimen to a great number of specimens.

The largest accession received during the year was the Malkin Collection of beetles. This collection, which was acquired by purchase, includes about 100,000 specimens, mostly North American, with especially strong representation from the Pacific Northwest.

A purchase of 78 specimens of fishes from the Strait of Messina came from a locality known since Jason's ship passed by in search of the Golden Fleece. The whirlpool Charybdis (whose dangers to early mariners were personified by the ancients as a female monster) plays a part in bringing deep-sea fishes to the surface where they are easily dipped up, with the result that beautifully preserved specimens unmarred by dredge are obtained. This fact has been well known since ichthyology began, and our accession is important as excellent material of many forms from the type locality.

A collection of 12,500 tree snails of Florida and the West Indies made by the late Michael Price de Boe and Mizpah de Boe was purchased through the generosity of Museum Contributor Dr. Jeanne S. Schwengel. These shells have long been popular with collectors because of their beauty and variability, and a great many forms have been named. This collection, which contains series from many localities representing most of the more-than-50 named forms, provides material for genetic research in color pattern. Another collection of tree snails that was received during the year is the Winte Collection (about 9,000 specimens), notable for the fine exhibition quality of the shells (purchase).

Among other notable accessions for the year are: 384 birds of Egypt and the Sudan from Research Associate Hoogstraal (gift); 1,551 reptiles and amphibians of Formosa and Borneo collected by Dr. Robert E. Kuntz (gift); 138 lots of fishes of the inshore and offshore waters of the Caribbean received from the United States Fish and Wildlife Service (gift); 243 fossil insects in Baltic amber, including a new species of Ptiliid beetle (purchase); 135 rove beetles, mostly ant guests, including 95 paratypes of 68 species from the United States National Museum (exchange); and 17 slides of watermites from Dr. Robert M. Crowell (gift).



PART OF
NEW
EXHIBIT

BOARDMAN
CONOVER
HALL

Care of the Collections—Zoology

Research involves a great amount of routine, and much museum routine revolves around our specimens and their care. So much a matter of routine is the work of unpacking, sorting, identifying, cataloguing, labeling, arranging, filing, and periodic inspecting and fumigating that we tend to pass it by without thought. But certain points in this essential never-ending task are worth mentioning.

Associate Ellen T. Smith arranged and identified the incoming birds of the Philippine Islands, while Assistant M. Dianne Maurer processed those from many other areas. Assistant Janet Wright, in addition to a considerable amount of illustrating for herpetological reports, all but completed cataloguing the Taylor Collection of reptiles and amphibians. Assistant Pearl Sonoda processed incoming collections of fishes and also rearranged the fish collection.

All our exotic butterflies, except those of the Strecker Collection, were brought together and arranged during the summer by Associate Nelson, a tedious task that involved much relabeling. Assistant August Ziemer, aided by Sander Marcus and John W. Saul III (Antioch College students), pinned and labeled many thousands of insects. The slide collection of biting and sucking lice was filed and several thousand reprints of papers on insects were placed in the division's reprint library with the assistance of Mrs. Catherine Halas, Antioch College student. The three Antioch students also helped with processing 16,500 sets of mollusks totaling about 175,000 specimens, thus reducing considerably the backlog accumulated during the past several years.

Osteologist Sophie Andris prepared 43 skeletons and about 1,100 skulls. Tanner Dominick Villa and Assistant Taxidermist Mario Villa continued the task of cleaning and moth-proofing certain older specimens as well as keeping abreast of current accessions.

Exhibits—Zoology

Two new bird exhibits were installed, a fish exhibit was revised and reinstalled, and several mammal exhibits were renovated. Work progressed on plans and preparation of material for the first five exhibits that are proposed for the revision of Hall 15 (Mammals in Systematic Arrangement).

One more exhibit is needed to bring to completion the synoptic series of birds of the world in Boardman Conover Hall (Hall 21). One of the two current additions shows owls, barn owls, cuckoos,

plantain eaters, parrots, pigeons, and sandgrouse and the other shows the shorebirds and their relatives. Specimens illustrate the range of variation in each bird family and collateral material (chiefly art work) tells about the way of life of some of the birds. The dodo, a turkey-sized aberrant pigeon long extinct, is represented by a replica, for no specimens of it exist.

The revised exhibit of "living fossil fishes" in Hall O (Fishes) presents models of the most primitive of living fishes (gar, bowfin, sturgeon, paddle fish, lungfish, and, most primitive of all, lamprey). There is also considerable new collateral material, which includes a lungfish hibernating in its capsule in the mud of a dried-up pond, casts of fossil teeth and bones of various fossil fishes, and developmental stages of certain living species. The exhibits of walrus, manatee, and Weddell's seal in the Hall of Marine Mammals (Hall N) were renovated. The animals were cleaned, the scenery was retouched, and the snow, which was dingy with age, was replaced with fresh white snow made from granulated sugar.

Exhibition work was carried on by Artist Joseph B. Krstolich, Taxidermist Carl W. Cotton, and Assistant Taxidermist Peter Anderson. Art work was prepared by Staff Artist E. John Pfiffner, who also assisted with design.

Besides the regular exhibition work, the taxidermists have various tasks that in the aggregate assume some importance. Expedition equipment and supplies are cared for and checked in and out to authorized persons. Bird and mammal specimens are repaired, and exceptionally fine specimens that are received in the flesh are made ready for future exhibition. Help is given in preparing skeleton specimens of large animals from the zoo, and occasionally specialized work is done for other departments of the Museum, such as rehairing a Maori scalp for the Department of Anthropology.

LIBRARY OF THE MUSEUM

SCIENTIFIC SOCIETIES

CO-OPERATION

PUBLIC RELATIONS

MOTION PICTURES

PHOTOGRAPHY AND
ILLUSTRATION

THE BOOK SHOP

PUBLICATIONS AND
PRINTING

MAINTENANCE, CONSTRUCTION
AND ENGINEERING



BALUBA
FIGURINE

EDWARD E.
AND
EMMA B.
AYER
HALL

LIBRARY OF THE MUSEUM

The Library's receipts during the year totaled 26,612 items, including books, periodicals, pamphlets, microfilms, photostats, maps, and atlases, all relating to the Museum's fields of interest. Since materials of research are not limited to books, the journals, bulletins, transactions, proceedings, memoirs, and all other publications appearing in periodic succession greatly enrich the Library's collection and contribute substantially to scientific research. During the year 16,282 serials were received and recorded on the Kardex. The acquisition of a sizable proportion of serials is made possible by the cordial co-operation, through exchange, of issuing-agencies all over the world. The Library is receiving some of the most important periodicals currently being published.

Extensive as are the exchange relations of the Museum, many books and periodicals in its field can be obtained only by purchase. The following selections are representative of material acquired this year by purchase: *Natural History Review*, a quarterly journal of biological science (v. 1-5, 1861-65); *Neues systematisches Conchyliencabinet* . . . (1769-95) (by Friedrich Heinrich Wilhelm Martini and Johann Hieronymus Chemnitz); *Beiträge zur Kenntniss der Fauna mexikanischer Land- und Süsswasser-conchylien* (1873) (by Hermann Strebel and Georg Pfeffer); *Biologische Untersuchungen* . . . (neue Folge, 19 v., 1890-1921) (by Gustaf Retzius); *Leçons d'anatomie comparée de Georges Cuvier* (2 éd., cor., et augm., 8 v. in 9, 1835-46) (by Georges Cuvier); *Map of Hispanic America on the scale of 1:1,000,000* (published by American Geographic Society); and 23 revised maps (acquired to replace provisional sheets that had been issued from time to time).

Accessions totaled 2,110 volumes and withdrawals amounted to 164 volumes. Proceeds from the sale of duplicate material amounted to more than \$330. The many important gifts received by the Library contributed substantially to the resources of the collection. This opportunity is taken to thank all donors (listed on page 125) for their interested support.

The reference service in the General Reading Room is the most difficult to measure statistically, and no idea can be given of the time, ingenuity, and imagination required for the reference staff to find answers to many of the more perplexing questions that were asked by the Library's users. The number of books (2,383) that were circulated to visitors in the Reading Room shows only a fraction of the use of the Library's collection. Publications assigned to the divisional libraries for shelving circulate freely within the section. No

reasonably accurate numerical estimate of the actual use of books throughout the Museum can be made, but the figure could be well up in the thousands.

Besides the use of books within the Museum, the Library serves (and is in turn served by) outside libraries through interlibrary loans. Hence our resources and those of other institutions were supplemented by the 257 volumes borrowed and lent.

The cataloguing division catalogued and classified 1,471 titles consisting of 4,256 volumes and filed 13,636 cards in the General Card Catalogue and the four departmental card catalogues. The policy, begun last year, of reporting to the National Union Catalog the publications acquired during the year representing unique additions to the Library's specialized collection was continued. Thus 392 entries were contributed for inclusion in *The National Union Catalog: A cumulative author list representing Library of Congress printed cards and titles reported by other American libraries*.

Because the Library of Congress does not provide analytics for all monographs published, the cataloguing division prepared 1,773 analytics for monographs in series received in the Museum. The Authorities File, originated in the Museum Library for use as an important reference tool for the specialized cataloguing work, was enlarged by the addition of 2,045 cards. Of the extensive additions made to the East Asia Collection, many were received on exchange and have not yet been catalogued. The 82 Chinese-language books, comprising 333 volumes, which were acquired by purchase during the year, have been catalogued.

Of signal importance was the preparation and completion of a card catalogue for the Museum's collection of more than 250 Tibetan xylographs (books printed from wood blocks). These books, which were bequeathed by the late Dr. Berthold Laufer, former Chief Curator of Anthropology and well-known sinologist, had remained unorganized and unused for many years because of difficulty in finding a properly qualified scholar to catalogue and classify them. It was the Museum's good fortune to secure the scholarly services of Dr. Chie Nakane, of the University of Tokyo, who Romanized the titles and classified and sorted the books.

The catalogue prepared by Miss Nakane consists of 207 cards grouped under five subject-divisions representing 250 books plus fragmentary pieces. The greater portion of the collection, which is exceedingly rare, required the use of Sanscrit in the translation of titles. Subsequently, largely through the careful work of Chih-wei Pan of the Library staff and Custodian Allen S. Liss of the Department of Anthropology, each book was wrapped and filed in a dust-

proof metal cabinet especially provided for the purpose. Thus these books, most of them no longer obtainable, are available for use by scholars throughout the world who periodically write to the Museum for assistance in finding some rare Tibetan book. It is a great satisfaction to have this collection properly catalogued, organized, and housed for study and reference.

The Museum Library, as well as all other libraries contributing to the listing of their holdings in the *Union List of Serials*, has been called upon to participate in the compilation of the third and definitive edition of this important work. Since no library can own more than a fraction of the total number of serials published, this co-operative undertaking of the principal libraries of the United States and Canada results in the continuation of one of the most useful and time-saving bibliographic tools. In addition to titles listed in earlier editions, the third edition will include a record of newly acquired serials that began publication before 1950. Careful and intensive work must be devoted to the tedious process of checking the sections sent periodically by the publisher. It is expected that the forthcoming edition will be published in 1962.

A total of 262 miscellaneous items in foreign languages was referred to the Library for translation into English by various members of the Library staff.

Despite the absence of George Stosius for three months on sick leave, the binding program has been satisfactory: 1,090 volumes were prepared in the Library for binding and bound by a commercial bindery and 764 volumes were expertly repaired and restored by the Library staff (rehabilitation of many volumes was accomplished by the application of a liquid plastic adhesive, and hundreds of maps were reconditioned by the same method). Altogether, 4,299 volumes were lettered with the electric stylus. As a means of preservation, numerous pamphlets were placed in permanent binders before housing on the shelves.

Cataloguing and classification have begun for the collection of books bequeathed to the Library in 1957 by the late Dr. Karl P. Schmidt. Approximately 350 books, of a general nature ranging from Fowler's *Dictionary of Modern English Usage* to Lyell's *Principles of Geology* to the manuscript of the late Edward E. Ayer's *Early Reminiscences, 1860-1918*, have been catalogued. The Schmidt library is particularly rich in works on evolution, including 48 volumes by and about Darwin, Wallace, Huxley, Haeckel, and Romanes. This collection, together with Dr. Schmidt's scientific library (given also in 1957), is a valuable and valued addition to the resources of the Library.

The Library has no interest in acquiring collectors' items per se, but many of the most-needed older books in the field of the natural sciences fall into that category. A selective process is employed in the accumulation and maintenance of the many irreplaceable materials without which future scientific study and investigation would be seriously retarded.

In the latter part of 1960, the task of recataloguing and reclassifying the material in the Library's Rare Book Room was begun. This work became necessary when it was discovered that some volumes had, in the past, been classified (given numbers) but not catalogued (no card had been made). Hence these volumes were not represented in the Library's catalogue. Despite the pressure of other work and the fact that each of these books requires three or four times the work given to newer volumes, they are being properly classified under the Library of Congress system. It is hoped that this project can be completed in 1961. In recataloguing the material, it has been found that the leather bindings of many volumes are in need of restorative treatment. Work has begun on restoring the bindings by the application of neat's-foot oil.

A general shifting of all volumes and a rearrangement of the shelving of the oversize books in the Zoology Library was necessitated by the growth of the collection and the need to provide shelf-space for new works classified under the Library of Congress system. A similar problem prevailed in the Botany Library. Although the section housing the materials classified under the Library of Congress system had been completely reorganized the year before, it again became necessary to rearrange the Botany Library to provide space for newly acquired volumes.

During the year Miss Muriel G. Hightower, Robert E. Ramsdell, and Miss Perry Watts, Antioch College students, assisted with the clerical work of the General Library.

ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Dr. Paul S. Martin, Chief Curator of Anthropology, Dr. Donald Collier, Curator of South American Archaeology and Ethnology, and George I. Quimby, Curator of North American Archaeology and Ethnology, attended the meetings at Yale University of the Society for American Archaeology, where Chief Curator Martin was chairman of a section on contributed papers. Dr. Martin attended a symposium at the University of Illinois on ceramic technology and, with Dr. John B. Rinaldo, Assistant Curator of Archaeology, the Pecos Conference in Flagstaff on southwestern archaeology. Curator Quimby attended the meetings at the University of Illinois of the Midwest Archaeological Conference.

During July and August Curator Collier (under a travel grant from the National Science Foundation) participated in three important science meetings in Europe: a symposium sponsored by the Wenner-Gren Foundation for Anthropological Research (in Burg Warstein, Austria), the 34th International Congress of Americanists (in Vienna), and the 6th International Congress of Anthropological and Ethnological Sciences (in Paris). He served on the Board of Directors of the Institute of Andean Research.

Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, attended the meeting at Indiana University of the Central States Anthropological Society, of which he was elected second vice-president, and the Viking Fund medals and awards presentation dinner in New York. He continued as a member of the standing committee on museums in Pacific research of the Pacific Science Association. Phillip H. Lewis, Associate Curator of Primitive Art, attended the meetings in Minneapolis of the American Anthropological Association.

John R. Millar, Chief Curator of Botany, attended meetings in Lawrence, Kansas, of the 4th Conference of Directors of Systematic Collections. Dr. John W. Thieret, Curator of Economic Botany, attended the meeting at Purdue University of the newly formed Society for Economic Botany. Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, presided at a symposium on regional floras at the meeting in Stillwater, Oklahoma, of the American Institute of Biological Sciences and served as secretary of the Systematics Section of the Botanical Society of America.

Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Robert H. Denison, Curator of Fossil Fishes, attended the meeting in Denver of the Society of Vertebrate Paleontology, of which Curator Denison



PHOTOGRAPH BY
DR. LOUIS O. WILLIAMS

KAPOK TREE
IN
GUATEMALA

- BURDENED
WITH
VINES
AND
EPIPHYTES

was re-elected secretary-treasurer and Curator Zangerl was appointed to a committee chairmanship. Curator Denison met in Denver with the Board of Directors of the American Geological Institute and also attended the meetings in New York of the Society for the Study of Evolution and the American Society of Zoologists. Dr. Sharat K. Roy, Chief Curator of Geology, and Bertram G. Woodland, Associate Curator of Petrology, represented the Museum at the International Geological Congress in Copenhagen in August.

Dr. Austin L. Rand, Chief Curator of Zoology, and Emmet R. Blake, Curator of Birds, attended the meeting at the University of Michigan of the American Ornithologists' Union, of which Dr. Rand is first vice-president. Philip Hershkovitz, Curator of Mammals, Dr. Karl Koopman, Assistant Curator, and Miss Sophie Andris, Osteologist, attended the meetings in Tacoma of the American Society of Mammalogists. Rupert L. Wenzel, Curator of Insects, and Henry S. Dybas, Associate Curator, attended the meetings in Milwaukee of the North Central Branch of the Entomological Society of America.

Dr. Alan Solem, Curator of Lower Invertebrates, and Ernest J. Roscoe, Assistant, attended the meetings in Montreal of the American Malacological Union, where Curator Solem was appointed chairman of the finance committee and Dr. Fritz Haas, Curator Emeritus, was elected an Honorary Life Member in recognition of his outstanding contributions to malacological research. D. Dwight Davis, Curator of Vertebrate Anatomy, who continued to serve as a trustee of the American Society of Mammalogy, was elected chairman of the Morphology Section of the American Society of Zoologists at its meeting in New York.

Dr. R. M. Strong, Research Associate in the Division of Anatomy, attended the meetings in New York of the International Congress of Anatomists and the American Association of Anatomists. Miss Lillian A. Ross, Associate Editor of Scientific Publications and Associate in the Division of Insects, attended the Conference of Biological Editors in Cleveland.

Chief Curator Millar attended meetings of the Association of Science Museum Directors as representative of Dr. Clifford C. Gregg, Director, and the annual meeting of the American Association of Museums, both in Boston. Miss Miriam Wood, Chief of Raymond Foundation, who was president of the Midwest Conference of Museums of the American Association of Museums for 1959-60, attended the meeting in Dayton of the Midwest Conference of Museums and the meeting in Boston of the American Association of Museums. Miss Wood was judge of club projects for the Junior Academy of

Sciences of the Illinois Academy of Sciences at the meetings in Urbana. Miss Harriet Smith, of Raymond Foundation staff, attended the Midwest Archaeological Conference at the University of Illinois.

Mrs. Meta P. Howell, Librarian, and Mrs. M. Eileen Rocourt, Associate Librarian, attended the midwinter meeting in Chicago of the American Library Association. Mrs. Rocourt attended the convention in Cleveland of Special Libraries Association as chairman of the Museum Division.

The Fortieth Annual Meeting of the American Society of Ichthyologists and Herpetologists was held at the Museum from June 17 through June 19. The address of welcome at the opening session was given for the Museum by E. Leland Webber, Assistant Director. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, was general chairman of the local committee on arrangements.

Compilers of general reference books and encyclopaedias continue to seek our aid, and in the past year important contributions were made to these publications by members of the Museum's scientific staff. Curator Davis was appointed consulting editor in the field of comparative anatomy for *Encyclopedia of Science and Technology* (McGraw-Hill). Curator Thieret was appointed to the advisory board of *Encyclopaedia Britannica* as advisor in botany to succeed the late Dr. Theodor Just, former Chief Curator of Botany.

Curator Davis was elected managing editor of *Evolution*, official journal of the Society for the Study of Evolution. Dr. Louis O. Williams, who recently joined the staff as Associate Curator of Central American Botany, continued to serve on the editorial board of *Economic Botany*. Other members of our staff who continued to serve in various editorial capacities on scientific journals include Curator Collier, *American Antiquity*; Curator Inger, *Copeia* and *Evolution*; Assistant Curator Rinaldo, *Archives of Archaeology*; Curator Thieret, *Economy Botany*; Assistant Curator Turnbull, *Säugertierkundliche Mitteilungen* (Stuttgart, Germany) and *Society of Vertebrate Paleontology News Bulletin*; and Curator Woods, *The American Midland Naturalist*.

Numerous articles and reviews are contributed by members of the Museum's scientific staff to various learned journals. A list of some of this material in 1960, including books by staff members not published by the Museum but on subjects within the Museum's field of interest and research, begins on page 104.

CO-OPERATION WITH OTHER INSTITUTIONS

Dr. Paul S. Martin, Chief Curator of Anthropology, gave illustrated talks on his field work in Arizona to archaeology clubs at Highland Park and Oak Park-River Forest (Illinois) high schools. Dr. Donald Collier, Curator of South American Archaeology and Ethnology, and George I. Quimby, Curator of North American Archaeology and Ethnology, taught courses at the University of Chicago, Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, presented a seminar, and Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, gave a lecture. Curator Quimby lectured also at the Chicago Academy of Sciences and at Wayne State University. Phillip H. Lewis, Associate Curator of Primitive Art, lectured to students of the Therapy School of Manteno (Illinois) State Hospital who are being trained to teach the mentally ill.

The course in museology, which is given by the Museum's anthropologists in co-operation with the Department of Anthropology of the University of Chicago, was continued at the Museum. Miss Ann N. Levin, Chicago Natural History Museum Fellow in Anthropology of the University of Chicago for 1959-60, completed a study of the art of the Grassland tribes of the Cameroons, and Miss Mary Hogquist, Museum Fellow for 1960-61, has started a project concerned with physical anthropology.

Dr. Louis O. Williams, Associate Curator of Central American Botany, addressed a botany seminar at the University of Chicago. His subject was "The Highland Flora of Central America."

Dr. Everett C. Olson, Chairman of the Department of Geology at the University of Chicago and Research Associate of the Museum, continued to hold his course in vertebrate paleontology at the Museum. Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, took part in a seminar at Marquette University. Curator Richardson lectured on three occasions at the Chicago Academy of Sciences and Harry E. Changnon, Curator of Exhibits, conducted five geology field-trips for the Chicago Academy of Sciences as part of a sequence of physical-science lectures and field trips for local science teachers and students under the sponsorship of the National Science Foundation. Bertram G. Woodland, Associate Curator of Petrology, gave a radio talk as part of a science series sponsored by the Chicago Board of Education.

A phase of work in our geology laboratories that in recent years has grown to considerable size and importance is the preparation of plaster reproductions of fossil specimens in our study collections

for other museums, colleges, and universities. This year several hundred casts were made and sent to the American Museum of Natural History, Science Museum (St. Paul), Princeton University, University of Ottawa (Canada), University of Illinois, and University of Wisconsin.

Dr. Robert F. Inger, Curator of Amphibians and Reptiles, lectured to a class in comparative anatomy at the University of Chicago. Rupert L. Wenzel, Curator of Insects, taught a course in field zoology at the University of Chicago for the first five weeks of the fall quarter and Henry S. Dybas, Associate Curator, who was appointed Research Associate in the Department of Biology at Northwestern University, lectured before seminars at Northwestern University and Purdue University. Associate Curator Dybas also taught ecology in a high-school-level summer institute of biology at Knox College, a project that was supported by the National Science Foundation along with similar institutes in other parts of the country.

Dr. Alan Solem, Curator of Lower Invertebrates, gave a lecture at the University of Arizona and D. Dwight Davis, Curator of Vertebrate Anatomy, who continued as Lecturer in the Department of Zoology at the University of Chicago, sat on two examination boards. Harry Hoogstraal, Research Associate in the Division of Insects, received the Distinguished Civilian Award of the United States Department of Defense for his research on ticks and tick-borne diseases of man and animals.

Dr. Clifford C. Gregg, Director, was invited to become a member of the Citizens Board of the University of Chicago. Dr. Gregg and John R. Millar, Chief Curator of Botany, in a radio interview on station WCLM (FM) by Edwin Moll titled "Keys to the Three Kingdoms," gave a general exposition of the work of the Museum. Dr. Gregg also described the work of the Museum for the adult education seminar of the University of Chicago that visited the Museum with Dean Cyril Houle.

Universities and colleges whose classes visited the scientific departments of the Museum or otherwise used the Museum's facilities were: Adrian College, Beloit College, University of Chicago, Chicago Teachers College, De Paul University, Drake University, Elmhurst College, Emmanuel Missionary College, Fort Wayne Bible College, Frankfort (Indiana) Pilgrim College, Garrett Biblical Institute, George Williams College, Goshen College, Grace Theological Seminary, Grambling College, University of Illinois (Chicago), Illinois College of Chiropody, Illinois Institute of Technology, Indiana Central College, Indiana University, Iowa State Teachers College, Loyola University, Manchester (Indiana) College, Marquette University,

McMaster University (Canada), Midland College (Nebraska), Midwest Bible College (Missouri), Morton Junior College, National College of Education, North Central College, North Park College, North Texas State College, Northern Illinois University, Northwestern College (Wisconsin), Northwestern University, University of Notre Dame, Pestalozzi-Froebel Teachers College, Rockford College, Roosevelt University, Rosary College, Saint Cloud State College, Saint Joseph College, Saint Mary's College, Shimer College, University of Southern Utah, Valparaiso University, Western Michigan University, Wheaton College, and University of Wisconsin. Miscellaneous groups included students from Monterrey, Mexico, and fifteen anatomists from Moscow, U.S.S.R.

Supervised classes from art schools, including the Chicago Academy of Art, Chicago Academy of Fine Arts, Institute of Design, and School of the Art Institute of Chicago, continued to use the Museum exhibits for classroom work in painting, modeling, and sketching (see page 32). The Chicago Area Science Fair, which is sponsored by the Chicago Teachers Science Association, was held in the Museum on a Saturday in May.

Under the co-operative plan adopted in 1946 by this Museum and Antioch College (Yellow Springs, Ohio) thirteen students were employed in 1960 by the Museum in its scientific departments and General Library. Names of these young men and women are listed in appropriate places in this Report.

Organizations that used the facilities of the Museum for their regular meetings or lectures include Illinois Audubon Society, Nature Camera Club of Chicago, Kennicott Club, and Illinois Orchid Society. Chamber-music concerts in James Simpson Theatre under the auspices of the Free Concerts Foundation continued.

During the summer the Director of the Museum, as part of an extended trip in Europe, visited a number of museums and zoological gardens, returning, in many instances, visits made to this Museum by scientists or officers of those institutions. His itinerary included Bremen, Amsterdam, Antwerp, Waterloo, Brussels, Tervuren, Geneva, Basel, and Nuremberg.

A number of museum administrators visited this Museum during the year especially to study our methods. Dr. John W. Evans, Director of the Australian Museum at Sydney, visited the Museum under a grant from the United Nations Educational, Scientific, and Cultural Organization in connection with his study of museum organization, display preparation and techniques, and educational features. J. A. Rafferty, member of Parliament of Australia, included the Museum on his world trip to study museum construction and admin-

istration. Dr. Harald Seiler, Director of the City Museum of Wuppertal, Germany, came to seek material for his book on museum problems, including techniques, construction, illumination, conservation, ventilation, and care of collections. Leo Heuwing, Director of Deutsches Museum in Munich, visited the Museum when he was in Chicago as guest of the Chicago Museum of Science and Industry.

Many other scientists visited the four scientific departments of the Museum during the year, some of them to consult the study collections or to use the laboratories and workrooms. The following list (which does not include our many welcome visitors from the Chicago area) is, of course, incomplete.

Visiting anthropologists included Dr. Pedro Armillas, Dr. James B. Griffin, and Dr. William B. Trousdale, University of Michigan; Dr. Roman Pina Chan, Instituto Nacional de Antropología e Historia (Mexico); Chang Hsüan and Chow Fang, Metropolitan Museum of Art; Dr. Chiang Fu-tsung, National Central Library (Taiwan); Dr. Michael Coe, Yale University; Dr. Jose M. Cruxent, Museo de Ciencias Naturales (Venezuela); Barbro Dahlgren-Jordan, Museo Nacional de Antropología (Mexico); Dr. Edward B. Danson, Museum of Northern Arizona; Dr. Phillip J. C. Dark, Southern Illinois University; Dr. Frederick Dockstader, Museum of the American Indian; Fernando Garcia Esteban, Centro de Arte (Uruguay); Professor Jean Guiart, University of Paris (Sorbonne); Janvier L. Hamell, University of Pennsylvania; and

Dr. Jorge Iribarren, Museo de Arqueología (Chile); Professor Jesse D. Jennings, University of Utah; Dr. Richard S. MacNeish, National Museum of Canada; Professor Shinji Maejima, Keio University (Tokyo); Professor Mao Tzu-shui, National Taiwan University; Josea Mapondera, Rhodes National Gallery (Southern Rhodesia); Dr. William Mayer-Oakes, University of Oklahoma; Dr. Rene Millon, University of California; Dr. H. Müller-Beck, Bernisches Historisches Museum (Switzerland); Dr. Robert W. Newman, Missouri Basin Archaeological Project; Dr. Robert Ritzenthaler, Milwaukee Public Museum; E. B. Sayles, Arizona State Museum; Professor Sosuki Sugihara, Meiji University (Tokyo); Dr. Albert C. Spaulding, National Science Foundation; Dr. Alexander Spoehr, Bernice P. Bishop Museum; Dr. Naotune Watanabe, University of Tokyo; and Dr. Gordon R. Willey, Peabody Museum (Harvard University).

Visiting botanists included Dr. Carolyn K. Allen, New York Botanical Garden; John Beaman and William Overlease, Michigan State University; Dr. Maria Buchinger, Dirección de Investigaciones Forestales (Argentina); Dr. Richard S. Cowan, Dr. Lyman B. Smith,



HAND-PUPPETS
FROM
TAIWAN
(CHINA)

PROBABLY
19TH CENTURY

and Dr. William L. Stern, United States National Museum; Gerald Feldner and Dr. Mildred E. Mathias, University of California at Los Angeles; Professor J. M. Gillette, Plant Research Institute (Canada); Dr. Howard Hyland, Plant Industry Station (Maryland); A. Keating, University of Cincinnati; Dr. Job Kuijt, University of British Columbia; Professor Donald Larson, University of Houston; Dr. Cyrus L. Lundell, Texas Research Foundation; Mrs. Julia F. Morton, University of Miami (Florida); Dr. John Papaioannoe, University of Thessaloniki (Greece); Dr. Marcel Raymond, Jardin Botanique de Montreal; Robert Rodin, California Institute of Technology; Paul J. Sage, Indiana University; Richard Smiley, Carleton College; Dr. Oscar Tobar, Museo de Historia Natural (Peru); Dr. Ruth Walker, University of Wisconsin (Milwaukee); Dr. Grady Webster, Purdue University; Dr. R. L. Wilbur, Duke University; and Llewelyn Williams, Randolph, Wisconsin.

Visiting geologists included Dr. Richard J. Anderson, Berkeley Heights, New York; Dr. Walter Auffenberg, Boulder, Colorado; Dr. Robert S. Bader, University of Illinois; Dr. John Clark, South Dakota School of Mines; Dr. C. Barry Cox, King's College (London); John Dallman and Dr. William G. Reeder, University of Wisconsin; Dr. Albert R. Dawe and Dr. Louis S. Kornicker, Office of Naval Research (Chicago); Dr. Mary Dawson, Smith College; Dr. A. Gordon Edmund, Royal Ontario Museum; Dr. Mona Edwards, British Museum (Natural History); Bruce Erickson, Science Museum (St. Paul); Dr. R. C. Gutschick and Dr. Archie MacAlpin, University of Notre Dame; Dr. Marjorie Hooker, Dr. Richard L. Konizeski, and Dr. Alfred Pommer, United States Geological Survey; Dr. George Jakway, University of Nebraska State Museum; and

Irving C. Johnson, El Monte, California; Dr. Wann Langston, Jr., National Museum of Canada; Dr. A. Lee McAlester and Dr. Karl Waagé, Yale Peabody Museum; Dr. Josué Camargo Mendes, University of São Paulo (Brazil); Richard Neavel, Indiana Geological Survey; Franklin L. Pearch and Dr. Alexander Wetmore, United States National Museum; Dr. Frank H. T. Rhodes, University College (Wales); Dr. Alfred S. Romer, Museum of Comparative Zoology; Dr. Paul Sartenser, Institut Royal des Sciences Naturelles (Brussels); Dr. Bobb Schaeffer and Walter C. Sorensen, American Museum of Natural History; Dr. Robert E. Sloan, University of Minnesota; and Howard Stains, Southern Illinois University.

Visiting zoologists included Dr. Thomas H. G. Aitken, Trinidad Regional Virus Laboratory; Dr. Sydney Anderson, Peter S. Chrapliwy, and Robert G. Webb, University of Kansas; Dr. Manawel Araiche, University of Rochester School of Medicine; John H. Ard-

ley, Bubia Agricultural Station (New Guinea); Dr. Paul H. Arnaud and Dr. Alan Leviton, California Academy of Sciences; Dr. Walter Auffenberg and Dr. T. Paul Maslin, University of Colorado; Dr. Paul Basch, Emporia State Teachers College; George A. Bates, London; Dr. Charles O. Bechtol (Medical Center), Dr. Nicholas E. Collias, and Dr. Boyd W. Walker, University of California at Los Angeles; Dr. Joseph Bequaert and Dr. Giles W. Mead, Harvard College; Mr. and Mrs. Cristopher Billups, Lawrenceburg, Indiana; Laurence C. Binford, Louisiana State University; and

Dr. Charles M. Bogert, Dr. Albert E. Parr, and Dr. and Mrs. Charles Vaurie, American Museum of Natural History; Dr. James E. Böhlke, Academy of Natural Sciences of Philadelphia; Rudyard Boulton, Atlantica Foundation (Southern Rhodesia); Arden Brame and Dr. Arnold Kluge, University of Southern California; Dr. Walter Brown, Warren Freihofer, and Dr. and Mrs. George Myers, Stanford University; Harvey R. Bullis, Jr., Norman Pease, and Dr. Daniel M. Cohen, United States Fish and Wildlife Service; Dr. Emmet T. Hooper, Dr. Robert R. Miller, Dr. John B. Burch, D. F. Owen, Richard Parker, and Dr. Charles Walker, University of Michigan; Mr. and Mrs. Emery P. Chace, San Diego Society of Natural History; M. Cole, Bo School (Africa); Mr. and Mrs. Melvin Cornfield, New York; Dr. E. J. Crossman, Dr. A. Gordon Edmund, and Dr. W. B. Scott, Royal Ontario Museum; Dr. Rezneat M. Darnell, Marquette University; James R. Dixon, Agricultural and Mechanical College of Texas; Dr. Herndon Dowling, New York Zoological Park; Dr. Carl J. Drake, Dr. Carter R. Gilbert, Dr. Ernest Lachner, and Dr. Alexander Wetmore, United States National Museum; Frederick R. Fechner, Rockford, Illinois; Dr. M. J. Fouquette, University of Florida; Dr. John W. Gehringer, United States Bureau of Commercial Fisheries; and

Dr. N. Ghaffary, University of Teheran (Iran); Dr. Robert H. Gibbs, Jr., Boston University; Bruce Hayward, University of Arizona; Dr. Johann Gerhard Helmcke, Berlin; Donald Herold (Director), Davenport Science Museum; James Huheey, Miss Wilma Lehmann, Dr. Richard B. Selander, and Dr. Joseph Tihen, University of Illinois; Dr. David L. Jameson, San Diego State University; Dr. Siro Kawaguti, Okayama University (Japan); Dr. M. L. Keith, Pennsylvania State University; Dr. David H. Kistner, Chico State College; Dr. John M. Legler, University of Utah; Kim Hing Liem, Universitas Indonesia; Dr. T. H. Manning, Ottawa; and

Dr. Romeo Mansuetti, Chesapeake Biological Laboratory; Stuart Marks, North Carolina State College; Walter McIlhenny, Avery Island, Louisiana; Dr. A. E. W. Miles, London; Dr. George A. Moore,

Oklahoma State University; Miss Setsuoka Nakata, Bernice P. Bishop Museum; Henry Le Nestour, Paris; Brother G. Nicholas and E. Winkler, University of Notre Dame; Miss Peggy Nicklin, Trenton; Dr. James A. Peters, San Fernando Valley State College; John Porter, University of New Mexico; Dr. Frank W. Preston, Butler, Pennsylvania; Dr. Manning A. Price, Texas Agricultural Experiment Station; Dr. Gerbert Rebell, New Brunswick, New Jersey; and

Dr. Neil Richmond, Carnegie Museum; Dr. C. Richard Robins, University of Miami (Florida); Dr. Herbert H. Ross and Dr. Milton W. Sanderson, Illinois State Natural History Survey; Douglas A. Rossman, Southern Illinois University; Dr. Janis A. Roze, Universidad Central (Venezuela); Dr. Reece I. Sailer, Beltsville, Maryland; Gilberto Silva-Taboada, Havana; Royal D. Suttikus, Tulane University of Louisiana; Dr. Vadim D. Vladykov, University of Ottawa (Canada); Miss Jane Walker, South African Veterinary Research Organization (Nairobi, Kenya); Harlan Walley, Sandwich, Illinois; and Jay Webber, Miami, Florida.

Widely known visitors to the Museum were Sir Edmund Hillary, leader of the World Book Encyclopedia Scientific Expedition to the Himalayas (see page 24), Desmond Doig, its official reporter, and Kumja Chumji, the Sherpa villager, who brought the "yeti scalp" to the Museum where the first correct identification of the object was made by the Division of Mammals. Marlin Perkins, Director of Lincoln Park Zoo (Chicago), who was a member of the World Book Expedition, accompanied the group to the Museum.



AZTEC
RAIN GOD

HALL 8

PUBLIC RELATIONS

The death early in the year of Horace B. Harte, Public Relations Counsel, called for immediate emergency-plans to continue the work of the Division of Public Relations. Miss Marilyn Jindrich, who was promoted to Associate in Public Relations, worked alone and kept the Division of Public Relations functioning throughout the very difficult period of readjustment. Mrs. Paula R. Nelson joined the staff in May as Public Relations Counsel.

The list of publicity outlets for Museum materials was carefully checked and revised to make certain that information about the Museum would reach the public through selected newspapers, magazines, and radio and television programs. The report of the discovery by the Museum's Southwest Archaeological Expedition of a six-hundred-year-old sacred image of sandstone was given wide circulation and first came to the attention of the Director of the Museum in a copy of the Paris edition of the *New York Herald Tribune* in Brussels. Installation and successful operation of Soundtrek, the Museum's radio-guide system, was featured on Jack Mabley's program on radio station WBBM.

The format of the Museum's monthly *Bulletin* was changed in the hope of making it more attractive and most easily read. As in former years, many stories from the *Bulletin* found their way into the columns of the daily press, often through syndicated stories with nation-wide circulation.

An important aspect of the work of the Division of Public Relations is personal service to representatives of organizations, the communications media, and the general public. Information for house organs and conventions and for other distribution is always available and promptly supplied to those having needs for it.

The Museum wishes especially to express its gratitude to the *Chicago Tribune*, *Chicago Sun-Times*, *Chicago Daily News*, and *Chicago's American* for constant interest in the Museum and ready willingness to present its story to readers. Our thanks also go to the radio and television stations of greater Chicago that so often made their air channels available both for special features and for spot announcements. The service of the press, radio, and television has done much to bring the public into contact with the educational opportunities sponsored by the Museum. We also thank the Chicago and North Western Railway, Chicago Transit Authority, and Illinois Central System for displaying without charge in their local stations placards advertising lectures and other Museum events, a courtesy that has continued for many years.

MOTION PICTURES

An important contribution to education in American Indian archaeology is the new film "A Sauk Village Site," which has been produced jointly by the Museum and the Department of Anthropology of the University of Illinois.

"Through These Doors," the film that depicts Museum activities, was in constant use during the year, being sent out as in previous years on a free-loan basis to social and educational organizations. Because of the increasing number of requests, two additional prints were purchased, making a total of eight prints of the film now available. All photography for a new film showing Museum activities was completed and awaits script preparation.

General inspection, cleaning, and repairing of film in the Museum's Film Library were accomplished on the usual twice-a-year basis. Cataloguing and accessioning film subjects, which now number 104 complete productions, were finished.

PHOTOGRAPHY AND ILLUSTRATION

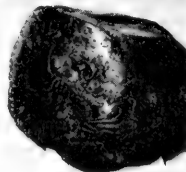
The problem in the Division of Photography during the past year has been to keep up with the tremendous amount of work without sacrificing quality. A partial solution was achieved by the addition to the staff of Kurt Bogen, Assistant, who has confined his efforts to printing so that John Bayalis, Photographer, and Homer V. Holdren, Assistant, could devote the time necessary to production of the Museum photographs that have been lauded so widely for their fine quality. The increasing work resulted partially from the death of J. S. Daston, Assistant in Botany, who had been handling photographs of botanical type-specimens.

Production for the year of negatives, prints, enlargements, transparencies, and slides by the Division of Photography totaled 30,126 items. Miss Mary Creed capably cared for prints and negatives, checking, numbering, and filing a total of 126,241 items.

A memorandum from E. John Pfiffner, Staff Artist, describes the year in the Division of Illustration as "routine but pleasant." Nevertheless he and Miss Marion Pahl, Staff Illustrator, performed ably in producing illustrations, posters, exhibit layouts, and other specialized assignments. Considerably more work was brought to the Division of Illustration by the change in format of the Museum *Bulletin*. Planning also was required in connection with exhibition programs that will materialize in succeeding years.

NATURAL RESINS

HARD RESINS



PART OF
NEW EXHIBIT

HALL 28

THE BOOK SHOP

It should be remembered that the Book Shop was founded to extend the educational outreach of the Museum rather than as a medium to produce income. Thus of highest importance in the record of the year are the sale of publications written by Museum staff members and the distribution of color-transparencies of our educational exhibits that combine the ideas of Museum scientists and the technical skills of Museum artists and preparators. Total sales for the year were \$183,636.15. Although over-the-counter sales increased, sales by mail decreased, resulting in a small decrease in total sales. Museum Storybooks, written by members of Raymond Foundation staff, continued to be popular with the children, and 17,366 copies were sold (10 new titles were published during the year, see page 101). Sales of educational color-transparencies of Museum exhibits increased to a total of 15,712 units.

PUBLICATIONS AND PRINTING

Distribution of Museum publications in 1960 continued the generally upward trend that has been evident in recent years. Publications shipped without charge under existing exchange relations with other institutions and individuals totaled 23,690 copies. Sales of 65,425 copies were considerably higher than in any previous year. Additional help was not required to handle this increase in work primarily because of the loyal and co-operative efforts of Raymond A. N. Gomes and Miss Hilda Nordland.

During the year the Museum issued 27 publications in its scientific series and 1 in its Memoirs series, 1 annual report, 1 guidebook, 1 handbook, 14 Museum Storybooks (4 reprints), and 1 index. Of these, copies printed by the Museum Press totaled 44,213 from 1,884 pages of type composition. Twelve issues of *Chicago Natural History Museum Bulletin* were printed, averaging 8,351 copies an issue. In addition there were posters, price lists, lecture schedules, invitations, announcements, and looseleaf Museum Stories (Raymond Foundation), totaling 818,700 impressions.

Indian Art of the Americas (64 pages, 65 illustrations, paper-bound), a catalogue by Dr. Donald Collier, Curator of South American Archaeology and Ethnology (see Annual Report 1959, page 51), was selected by the Chicago Book Clinic as a Top Honor Book for display in its Eleventh [1960] Annual Exhibition of Chicago and Midwestern Bookmaking.

MUSEUM PUBLICATIONS IN 1960

DEPARTMENT OF ANTHROPOLOGY

FORCE, ROLAND W.

Leadership and Cultural Change in Palau, Fieldiana: Anthropology, volume 50, 211 pages, 31 illustrations, 1 map

MARTIN, PAUL S., and JOHN B. RINALDO

Excavations in the Upper Little Colorado Drainage, Eastern Arizona, Fieldiana: Anthropology, volume 51, number 1, 129 pages, 61 illustrations, 1 map

Table Rock Pueblo, Arizona, Fieldiana: Anthropology, volume 51, number 2, 172 pages, 91 illustrations, 1 map

DEPARTMENT OF BOTANY

MACBRIDE, J. FRANCIS

Flora of Peru, Botanical Series, volume 13, part 1, number 2, 100 pages

Flora of Peru, Botanical Series, volume 13, part 5, number 2, 319 pages

SCHWEINFURTH, CHARLES

Orchids of Peru, Fieldiana: Botany, volume 30, number 3, 262 pages, 58 illustrations

SMITH, C. EARLE, JR.

A Revision of Cedrela (Meliaceae), Fieldiana: Botany, volume 29, number 5, 62 pages, 15 illustrations

DEPARTMENT OF GEOLOGY

CARMAN, J. ERNEST

The Stratigraphy of the Devonian Holland Quarry Shale of Ohio, Fieldiana: Geology, volume 14, number 1, 5 pages, 1 illustration

DENISON, ROBERT H.

Fishes of the Devonian Holland Quarry Shale of Ohio, Fieldiana: Geology, volume 11, number 10, 61 pages, 33 illustrations

REEDER, WILLIAM G.

Two New Rodent Genera from the Oligocene White River Formation (Family Heteromyidae), Fieldiana: Geology, volume 10, number 35, 14 pages, 7 illustrations, 2 tables

TURNBULL, WILLIAM D.

A Lance Didelphid Molar, With Comments on the Problems of the Lance Therians, Fieldiana: Geology, volume 10, number 36, 13 pages, 2 illustrations

TURNBULL, WILLIAM D., and CHARLES A. REED

Arctoryctes and Some Other Chadronian Vertebrate Microfossils from Nebraska, Fieldiana: Geology, volume 14, number 3, 17 pages, 6 illustrations

ZANGERL, RAINER, and ROBERT E. SLOAN

A New Specimen of Desmatochelys lowi Williston, A Primitive Cheloniid Sea Turtle from the Cretaceous of South Dakota, Fieldiana: Geology, volume 14, number 2, 36 pages, 24 illustrations

ZANGERL, RAINER, and WANN LANGSTON, JR.

The Vertebrate Fauna of the Selma Formation of Alabama. Part V, An Advanced Cheloniid Sea Turtle. Part VI, The Dinosaurs, Fieldiana: Geology Memoirs, volume 3, numbers 5 and 6, 95 pages, 44 illustrations

MUSEUM PUBLICATIONS IN 1960

DEPARTMENT OF ZOOLOGY

CASTLE, P. H. J.

Two Eels of the Genus Synphobranchus from the Gulf of Mexico, Fieldiana: Zoology, volume 39, number 35, 12 pages, 2 illustrations

DELFINADO, MERCEDES D.

Philippine Zoological Expedition 1946-1947: On Some Parasitic Laelaptoid Mites (Acarina) of the Philippines, Fieldiana: Zoology, volume 42, number 8, 22 pages, 17 illustrations

DYBAS, HENRY S.

A New Genus of Blind Beetles from a Cave in South Africa, Fieldiana: Zoology, volume 39, number 36, 7 pages, 2 illustrations

GREY, MARION

Sonoda paucilampa, A New Conostomatid Fish from the Western Atlantic, Fieldiana: Zoology, volume 39, number 42, 7 pages, 1 illustration

INGER, ROBERT F.

A Review of the Oriental Toads of the Genus Ansobia Stoliczka, Fieldiana: Zoology, volume 39, number 43, 31 pages, 11 illustrations

Notes on Toads of the Genus Pelophryne, Fieldiana: Zoology, volume 39, number 39, 4 pages, 1 illustration

MARX, HYMEN

A New Colubrid Snake of the Genus Atractus, Fieldiana: Zoology, volume 39, number 38, 3 pages, 1 illustration

A New Iguanid Lizard of the Genus Ctenoblepharis, Fieldiana: Zoology, volume 39, number 37, 3 pages, 1 illustration

RAND, AUSTIN L.

A New Species of Babbling Thrush from the Philippines, Fieldiana: Zoology, volume 39, number 33, 2 pages

RAND, AUSTIN L., AND DIOSCORO S. RABOR

Birds of the Philippine Islands: Siquijor, Mount Malindang, Bohol, and Samar, Fieldiana: Zoology, volume 35, number 7, 221 pages

SMITH, ELLEN THORNE

Review of Pionus Maximiliani (Kuhl), Fieldiana: Zoology, volume 39, number 34, 7 pages, 1 map

VOSS, GILBERT L.

Bermudan Cephalopods, Fieldiana: Zoology, volume 39, number 40, 28 pages, 3 illustrations

WENZEL, RUPERT L.

Three New Histerid Beetles from the Pacific Northwest, with Records and Synonymies of Additional Species (Coleoptera: Histeridae), Fieldiana: Zoology, volume 39, number 41, 17 pages, 3 illustrations, 1 map

WIRTH, W. W., AND A. A. HUBERT

Philippine Zoological Expedition 1947-1947: Camptopterohelea, A New Genus of Ceratopogonidae from the Philippines (Diptera), Fieldiana: Zoology, volume 42, number 7, 3 pages, 1 illustration

MUSEUM PUBLICATIONS IN 1960

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION

ANDRE, MARYL

Bible Animals, Museum Storybook (9 Museum Stories), 21 pages, 9 illustrations, paperbound (second printing)

BUCHWALD, JUNE

Life in the South American Jungle, Museum Storybook (9 Museum Stories), 21 pages, 11 illustrations, paperbound

[CRAMER, ROBERTA, AND OTHERS]

Indians of Early Chicago, Museum Storybook (8 Museum Stories), 20 pages, 9 illustrations, paperbound (third edition)

FLEMING, EDITH

Africa and Its People, Museum Storybook (9 Museum Stories), 21 pages, 10 illustrations, paperbound (second printing)

From Cave Man to City Dweller, Museum Storybook (9 Museum Stories), 21 pages, 9 illustrations, paperbound

The Chao Family of China, Museum Storybook (9 Museum Stories), 22 pages, 9 illustrations, 1 map, paperbound

SHARPE, JANE, AND LORAIN STEPHENS

Mythical Animals, Museum Storybook (9 Museum Stories), 21 pages, 9 illustrations, paperbound

SMITH, HARRIET

Holiday in Ancient Egypt, Museum Storybook (9 Museum Stories), 22 pages, 9 illustrations, 1 map, paperbound

Indian Neighbors, Museum Storybook (9 Museum Stories), 22 pages, 8 illustrations, 1 map, paperbound

[SMITH, HARRIET, AND OTHERS]

Nature Magic, Museum Storybook (8 Museum Stories), 20 pages, 8 illustrations, paperbound

SVOBODA, MARIE

Bible Plants, Museum Storybook (9 Museum Stories), 21 pages, 9 illustrations, paperbound

WEAVER, DOLLA COX

Days of the Dinosaurs, Museum Storybook (8 Museum Stories), 20 pages, 8 illustrations, 1 chart, paperbound (second printing)

WOOD, MIRIAM, AND MARIE SVOBODA

Plant Adventurers, Museum Storybook (9 Museum Stories), 21 pages, 10 illustrations, paperbound

[WORSHAM, NANCY, AND OTHERS]

Life in the Polar Regions, Museum Storybook (9 Museum Stories), 21 pages, 10 illustrations, paperbound

OTHER MUSEUM PUBLICATIONS

General Guide, Chicago Natural History Museum, 48 pages, 32 illustrations, floor plans, map (thirty-ninth edition)

Report of the Director to the Board of Trustees for the Year 1959, 178 pages, 26 illustrations

Through the Halls, Chicago Natural History Museum, 39 pages, 36 illustrations in color

MUSEUM PUBLICATIONS IN 1960

CHICAGO NATURAL HISTORY MUSEUM BULLETIN

Chicago Natural History Museum Bulletin, volume 31 (1960), 12 numbers, 96 pages, illustrated

THE FOLLOWING ARTICLES AND REVIEWS BY STAFF MEMBERS OF CHICAGO NATURAL HISTORY MUSEUM ARE PRINTED IN VOLUME 31 OF THE BULLETIN:

COLLIER, DONALD

"Alfred Lewis Kroeber, 1876-1960," no. 11, p. 8

"Aztec Sculpture," no. 6, pp. 4-5, 15 illustrations (also 2 illustrations on page 2 and cover picture)

FLEMING, ROBERT L.

"Something New in Calendars—Nepal's Unusual Year," no. 3, pp. 3, 7, 1 illustration

FORCE, ROLAND W.

"Discovery of the Pacific Isles: 'Blackbirding' and the Decline of Island Cultures" [part 5], no. 5, pp. 4-5, 1 illustration

"Discovery of the Pacific Isles: It All Started with Spice and Ended with Science" [part 3], no. 3, pp. 4-5, 1 illustration

"Discovery of the Pacific Isles: The Missionaries Create a Psalm Book Civilization" [part 4], no. 4, pages 3-4, 1 illustration

"South Sea Isles: Discovery Not all Accolades and Fame" [part 2], no. 2, pp. 3, 7-8, 1 illustration

"South Sea Isles: What Led to Early Discoveries" [part 1], no. 1, pp. 3, 8

Review of *Vikings of the Pacific* (by Peter H. Buck), no. 5, p. 6, 1 illustration

HERSHKOVITZ, PHILIP

"Supposed Ape-man or 'Missing Link' of South America," no. 4, pp. 6-7, 1 illustration

Review of *The Mammals of North America* (by E. Raymond Hall and Keith R. Kelson), no. 5, pp. 6-7, 1 illustration

INGER, ROBERT F.

"Dead on Road," no. 7, pp. 4-5, 1 cartoon

JINDRICH, MARILYN

"Invaders, Beware!" no. 7, pp. 3, 8, 4 illustrations (and cover picture)

"'The Voices of Youth'—Letters Appraise the Museum," no. 2, p. 6, 1 cartoon

MACMINN, HELEN A.

"Named Top Honor Book," no. 5, p. 2

NELSON, PAULA R.

"The Great Cave of Niah," no. 9, pp. 4-5, 7, 3 illustrations

"When Encyclopedias Ask the Experts," no. 8, pp. 6-8, 1 illustration

QUIMBY, GEORGE I.

"Burial Yields Clues to Red Ocher Culture," no. 2, p. 5, 1 illustration

RAND, AUSTIN L.

"A Nature Calendar for 1960," no. 1, pp. 4-5, 12 illustrations

Review of *A List of Common and Scientific Names of Fishes from the United States and Canada* (by Reeve M. Bailey and others), no. 8, p. 3, 1 cartoon

Review of *Natural History of New York City* (by John Kieran), no. 5, p. 8

Review of *The Tale of a Meadow* (by Henry B. Kane), no. 5, p. 6

MUSEUM PUBLICATIONS IN 1960
THE MUSEUM BULLETIN (CONTINUED)

ROSCOE, ERNEST J.

"A 'Case' of Mistaken Identity," no. 9, pp. 3, 8, 5 illustrations

"A Snail's Pace," no. 11, p. 3, 1 cartoon

SMITH, C. EARLE, JR.

"Birnam Wood Comes to Dunsinane," no. 8, pp. 4-5, 16 illustrations

SOLEM, ALAN

"Hidden Relics of the Ocean Deep," no. 10, pp. 6-7, 1 illustration

"Museum Receives Gift of Lifelong Hobby," no. 3, p. 8

"Rocks, Snails, and Cactus Spines," no. 6, pp. 3, 8, 3 illustrations

"Some Specimen Labels Tell Odd Stories," no. 2, p. 7

STARR, KENNETH

"Chinese Art and Christmas," no. 12, p. 3, 2 illustrations (and cover picture)

THIERET, JOHN W.

"Frankincense and Myrrh," no. 12, pp. 6-8, 2 illustrations

TRAYLOR, MELVIN A., JR.

"Parrots," no. 10, pp. 4-5, illustrated

"The Museum's Newest Exhibit," no. 7, pp. 6-7, 1 illustration

WILLIAMS, LOUIS O.

"Christmas in Honduras," no. 12, pp. 4-5, 3 illustrations

WOODLAND, BERTRAM G.

Review of *The Chemical Elements* (by Helen Miles Davis), no. 5, p. 7

WOODS, LOREN P.

"Nature Gave This Strange Fish Built-in Bifocals," no. 1, pp. 6-7, 4 illustrations

"The Alewife," number 11, pp. 6-8, 4 illustrations, 1 map



AZTEC
GODDESS

HALL 8

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1960

DEPARTMENT OF ANTHROPOLOGY

COLLIER, DONALD

"Pottery Stamping and Molding on the North Coast of Peru," in *Proceedings of the 33rd International Congress of Americanists* [San José, Costa Rica], vol. 2, pp. 424-431

Review of *Maya Hieroglyphic Writing* (2nd edition) (by J. Eric S. Thompson), in *American Antiquity*, vol. 26, no. 1, p. 128

FORCE, ROLAND W.

Review of *Archaeological Excavations in Yap* (by E. W. and D. S. Gifford), in *American Anthropologist*, vol. 62, no. 6, p. 1106

MARTIN, PAUL S.

Review of *Excavations at Nantack Village, Point of Pines, Arizona* (by David A. Breternitz), in *American Anthropologist*, vol. 62, no. 5, pp. 914-915

QUIMBY, GEORGE I.

"Habitat, Culture, and Archaeology," in *Essays in the Science of Culture in Honor of Leslie A. White* (edited by Gertrude E. Dole and Robert L. Carneiro) [Thomas Y. Crowell Company, New York], pp. 380-389

Indian Life in the Upper Great Lakes, 11,000 B.C. to A.D. 1800, xv+182 pages, 77 maps and illustrations [The University of Chicago Press]

"Rates of Culture Change in Archaeology," *American Antiquity*, vol. 25, no. 3, pp. 416-417

Review of *Birdstones of the North American Indian* (by Earl C. Townsend, Jr.), in *American Antiquity*, vol. 25, no. 3, p. 430

RINALDO, JOHN B.

Review of *Excavations at Nantack Village, Point of Pines, Arizona* (by David A. Breternitz), in *American Antiquity*, vol. 26, no. 2, pp. 297-298

DEPARTMENT OF BOTANY

GIBSON, DOROTHY

"Late Negative Geotropism in *Chelone*," *Rhodora*, vol. 62, no. 738, p. 173

JUST, THEODOR

"A Bibliography of American Paleobotany, 1952-1957," *Lloydia*, vol. 22, no. 4, pp. 247-294

"The Flower," in McGraw-Hill *Encyclopedia of Science and Technology* (1960), pp. 326-334

SHERFF, EARL E.

"Some Dicotyledonous Plants Recently Collected in the Hawaiian Islands," *Brittonia*, vol. 12, pp. 170-175

THIERET, JOHN W.

"*Calamovilfa longifolia* and Its Variety *magna*," in *American Midland Naturalist*, vol. 63, no. 1, pp. 169-176

"The Formaldehyde Method of Collecting Plant Specimens," *Turtlox News*, vol. 38, no. 4, pp. 114-115 [with Robert J. Reich]

Review of *Flora of Alberta* (by E. H. Moss), in *American Midland Naturalist*, vol. 63, no. 2, pp. 510-511

Review of *The Wealth of India—A Dictionary of Indian Raw Materials and Industrial Products, Volume 5 (Raw Materials): H-K*, in *Economic Botany*, vol. 14, no. 2, p. 159

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1960

WILLIAMS, LOUIS O.

- "Cloves," *Qualitas Plantarum et Material Vegetabiles*, vol. 7, no. 4, p. 384
Drug and Condiment Plants, Agricultural Handbook No. 172 [United States Department of Agriculture], 37 pages
"Ucuuba and Related Waxlike Vegetable Tallows," *Qualitas Plantarum et Material Vegetabiles*, vol. 8, no. 3, pp. 295-296
Review of *Food Plants of the South Sea Islands* (by Jacques Barreau), in *Economic Botany*, vol. 14, no. 2, p. 170
Review of *Subsistence Agriculture in Melanesia* (by Jacques Barreau), in *Economic Botany*, vol. 14, no. 2, p. 167

DEPARTMENT OF GEOLOGY

DENISON, ROBERT H.

- "Feeding Mechanisms of Agnatha, Acanthodii and Placodermi," *The Anatomical Record*, vol. 138, no. 3, pp. 342-343

OLSEN, EDWARD J.

- "An Attempt to Synthesize Graphite by the Disassociation of Carbon Dioxide," *Geochimica et Cosmochimica Acta*, vol. 19, 1960, pp. 147-148

ROY, SHARAT K.

- A New Phosphate Mineral from the Springwater Pallasite* [The University of Chicago, The Enrico Fermi Institute for Nuclear Studies], 20 pages, 5 illustrations

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

- "A Substitute Name for *Crypturellus strigilosus peruviana*," *The Auk*, vol. 77, p. 92

DAVIS, D. DWIGHT

- "The Feeding Mechanism in Mammals" (abstract), *Anatomical Record*, vol. 138, p. 342
"The Naturalist in the Tropics Today," *Proceedings of the Centenary and Bicentenary Congress of Biology* (1958) [Singapore], pp. 156-160
"The Proper Goal of Comparative Anatomy," *Proceedings of the Centennial and Bicentenary Congress of Biology* (1958) [Singapore], pp. 44-45
Review of *A Laboratory Manual of Cryptobranchus alleganiensis* Daudin (by Hazel Elisabeth Branch), in *Copeia*, 1960, p. 163

GREY, MARION

- "A Preliminary Review of the Family Gonostomatidae, With a Key to the Genera and the Description of a New Species from the Tropical Pacific," *Bulletin of the Museum of Comparative Zoology*, vol. 122, no. 2, pp. 57-125, 3 illustrations
"Description of a Western Atlantic Specimen of *Scombrolabrax heterolepis* Roule and Notes on Fishes of the Family Gempylidae," *Copeia*, 1960, no. 3, pp. 210-215, 3 illustrations

HAAS, FRITZ

- "Caribbean Land Molluscs: Vertiginidae," *Studies of the Fauna of Curaçao and other Caribbean Islands*, vol. 10, pp. 1-17, 7 illustrations
"Non-marine Mollusks from British Honduras," *Nautilus*, vol. 73, no. 4, pp. 129-131, 16 illustrations [with Alan Solem]

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1960

HERSHKOVITZ, PHILIP

"Mammals of Northern Colombia, Preliminary Report No. 8: Arboreal Rice Rats, A Systematic Revision of the Subgenus *Oecomys*, Genus *Oryzomys*," *Proceedings of the United States National Museum*, vol. 110, pp. 513-568, 18 illustrations

"Publication Dates for Names of the Anubis Baboon," *Journal of Mammalogy*, vol. 41, pp. 402-403

INGER, ROBERT F.

"A Review of the Agamid Lizards of the Genus *Phoxophrys* Hubrecht," *Copeia*, 1960, no. 3, pp. 221-225

NELSON, EDWARD M.

"The Morphological Relationships of the Lateral-line Nerve in Certain 'Electric Fishes,'" *Copeia*, 1960, no. 2, pp. 130-133, 4 illustrations

RAND, AUSTIN L.

"Family Laniidae, Family Vangidae," in *Check-list of Birds of the World* [Museum of Comparative Zoology, Harvard University], vol. 9, pp. 309-369

"Family Pycnonotidae," in *Check-list of Birds of the World* [Museum of Comparative Zoology, Harvard University], vol. 9, pp. 221-300 [with Herbert G. Deignan]

"Races of the Short-tailed Hawk, *Buteo brachyurus*," *The Auk*, vol. 77, no. 4, pp. 448-459

ROSCOE, ERNEST J.

"Collecting Mollusks in Desert Regions," in *How to Collect Shells* (2nd edition) [American Malacological Union, Buffalo, New York], pp. 60-62

SOLEM, ALAN

"Charles G. Nelson Collection," *Nautilus*, vol. 74, no. 1, p. 39

"Fred L. Button Collection," *Nautilus*, vol. 74, no. 1, pp. 38-39

New Caledonian Non-marine Shells Collected by T. D. A. Cockerell in 1928 [*Notulae Naturae*, Academy of Natural Sciences, Philadelphia, number 338], 9 pages, 8 illustrations

"Non-marine Mollusca from the Florida Islands, Solomon Islands," *Journal of the Malacological Society of Australia*, no. 4, pp. 39-56, 3 illustrations

"Notes on South American Non-marine Mollusca," *Annali del Museo Civico de Storia Naturale de Genova*, vol. 71, pp. 416-432, 2 illustrations

TRAYLOR, MELVIN A., JR.

"A New Race of *Emberiza striolata*," *Natural History Miscellanea*, no. 175, pp. 1-2

"*Francolinus schlegelii* Heuglin in Cameroon," *Bulletin of the British Ornithologists' Club*, vol. 80, no. 5, pp. 86-88

"Genera *Corythornis*, *Ispidina* and *Myioceyx*," *Bulletin of the British Ornithologists' Club*, vol. 80, no. 8, pp. 144-146

"Mutation in an African Flycatcher, *Dyaphorophya concreta*," *The Auk*, vol. 77, pp. 80-82

"Notes on the Birds of Angola, Non-Passerines," *Companhia Diamantes de Angola, Publicações Culturais*, no. 51, pp. 132-186

WOODS, LOREN P.

A List of Common and Scientific Names of Fishes from the United States and Canada (second edition), *American Fisheries Special Publication No. 2*, 102 pages [with Reeve M. Bailey (chairman) and others]

"Family Pomacentridae: Damselfishes," in *Fishes of the Marshall and Marianas Islands* (by Leonard P. Schultz and collaborators) [*United States National Museum Bulletin* 202, volume 2], pp. 47-120, 46 illustrations

CAFETERIA AND LUNCHROOM

Along with the increase in Museum attendance I am happy to report a substantial increase in the business of the cafeteria and lunchroom, which reached a total of 213,690 (an increase of $11\frac{1}{8}$ per cent). During the summer, when the Museum remained open on Saturday and Sunday evenings as well as on the Wednesday and Friday evenings when the free concerts are held in Grant Park, many persons who wished to spend the long summer evenings on the lakefront came to the Museum for an interesting visit to the exhibits and dinner in the Museum cafeteria. In all, the cafeteria and lunchroom served 247,509 persons. During the year the Museum expanded its facilities for school groups and individuals who bring their lunches to the Museum.

MAINTENANCE, CONSTRUCTION, AND ENGINEERING

The care of our huge building, including repairs and improvements as required, is but a part of the work of the divisions of Maintenance and Engineering. Heating, lighting, cleaning, snow-removal, and repair or replacement of nonfunctioning fixtures rendered ineffective by age, obsolescence, or vandalism are all parts of the normal work that makes possible our educational and scientific services to the people of the Chicago region.

Necessary tuckpointing was done on entrance steps, terraces, and chimney. Wall washing and painting continued throughout the year, as did the repair and replacement of upholstery in James Simpson Theatre and the Lecture Hall. A new classroom, complete with public-address system, was built on the ground floor so that children's groups might be better briefed before visiting the Museum exhibits. A new information booth was constructed in Stanley Field Hall and wired for lighting and telephone. Lunchroom tables and rest benches were refinished as required. New storm sash were built and installed on both sides of the north entrance.

In Hall 25 (Botany) closing of windows was completed and ceiling fixtures were removed. Outlets for lighting exhibit cases were installed, together with new fixtures to light the murals. Closing of windows in Hall 28 (Botany) was begun and the new wiring was completed. Hall L (Anthropology) on the ground floor was remodeled, and selected objects from Edward E. and Emma B. Ayer Hall (Hall 2, Anthropology) were moved to that location. The necessary cases were provided to permit installation in Ayer Hall of

new exhibits for the Hall of Primitive Art (see page 48). Exhibit cases were provided as needed for Hall F (Anthropology), which is now being reinstalled.

During the summer season the usual cleaning, repairing, and refitting of boilers, tubes, stokers, pumps, and accessories were done. Plumbing and electrical maintenance and extension continued throughout the year. One of the six magnificent chandeliers in Stanley Field Hall was completely rewired and the others were cleaned and relamped. Lighting of exhibit cases was completed in Hall 26 (Botany) and begun in Hall F (Anthropology)—the regular replacement of electric lamps through the building takes the full time of one man and much of the time of another. Completely new lighting was installed in the office of the Director of the Museum. New wire was installed for the public-address system in James Simpson Theatre and a new drinking fountain was placed in the adjacent lobby. In continuation of our electrical modernization program two new panel-boards for lighting were installed in locations on the ground floor.

During the heating season 37,610,600 pounds of steam were used to heat the Museum building while 10,050,000 pounds were furnished to Shedd Aquarium and 17,139,200 pounds to the Chicago Park District to heat its Administration Building and the offices and rooms in Soldier Field Stadium. New contracts were negotiated to cover this continuing service for the next contract periods.

MISCELLANEOUS

In the pages that follow are submitted the Museum's financial statements, attendance statistics, door receipts, accessions, list of Members, articles of incorporation, and amended by-laws.

CLIFFORD C. GREGG, *Director*
Chicago Natural History Museum

ATTENDANCE STATISTICS

FINANCIAL STATEMENTS

LIST OF ACCESSIONS



LITTLE
VISITORS
IN THE
HALL OF
FISHES

COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR YEARS 1960 AND 1959

	1960		1959
Total attendance.....	1,244,374		1,075,426
Paid attendance.....	172,759		157,643
Free admissions on pay days			
Students.....	55,670		53,662
School children.....	178,200		166,298
Teachers.....	11,670		10,883
Members of the Museum.....	954		756
Service men and women.....	1,159		840
Special meetings and occasions.....	10,412		3,640
Press.....	84		43
Admissions on free days			
Thursdays (52).....	143,255	(52)	141,491
Saturdays (53).....	307,440	(52)	251,262
Sundays (51).....	362,771	(52)	288,908
Highest attendance on any day			
(December 3).....	13,472	(November 28)	13,888
Lowest attendance on any day			
(February 15).....	265	(January 5)	149
Highest paid attendance (September 5)....	3,757	(September 7)	3,236
Average daily admissions (364 days).....	3,418	(363 days)	2,963
Average paid admssions (208 days).....	831	(207 days)	765
<hr/>			
Number of picture postcards sold.....	273,247		278,682
Sales of Museum publications (scientific and popular), <i>General Guide</i> , and photographs; checkroom receipts.....	\$ 41,788		\$ 35,179

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1960 AND 1959

GENERAL OPERATING FUND

RECEIPTS:	1960	1959
Endowment income—		
From investments in securities	\$ 393,085	\$ 386,590
From investments in real estate*	403,535	406,801
	<u>\$ 796,620</u>	<u>\$ 793,391</u>
* the Pittsfield Building was sold during 1960		
Chicago Park District—tax collections	\$ 344,455	\$ 379,249
Annual and sustaining memberships	30,220	29,340
Admissions	43,190	39,411
Sundry receipts, including general purpose contributions	87,624	80,574
Restricted funds transferred to apply against Operating Fund expenditures (contra)	124,301	247,622
	<u>\$1,426,410</u>	<u>\$1,569,587</u>
EXPENDITURES:		
Operating expenses—		
Departmental	\$ 661,832	\$ 633,983
General	492,345	493,319
Building repairs and alterations	98,914	97,321
	<u>\$1,253,091</u>	<u>\$1,224,623</u>
Collections—purchases and expedition costs	\$ 67,448	\$ 81,873
Furniture, fixtures, and equipment	6,395	23,210
Pension and employees' benefits	69,341	81,879
Provision for mechanical plant depreciation (contra)	10,000	10,000
Nonrecurring expenditures—		
Purchase and installation of boiler	\$ 20,226	\$ 99,452
Exterior lighting of Museum building		49,300
	<u>\$1,426,501</u>	<u>\$1,570,337</u>
DEFICIT FOR YEAR	<u>\$ 91</u>	<u>\$ 750</u>

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM
COMPARATIVE STATEMENT OF RECEIPTS
AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1960 AND 1959 (CONTINUED)

THE N. W. HARRIS PUBLIC SCHOOL
EXTENSION FUND

	1960	1959
Income from endowments.....	\$ 32,998	\$ 31,120
Expenditures.....	24,500*	28,213
SURPLUS FOR THE YEAR.....	<u>\$ 8,498</u>	<u>\$ 2,907</u>

* not including \$4,293 for trucks purchased and charged to Depreciation Fund

OTHER RESTRICTED FUNDS

RECEIPTS:	1960	1959
From Specific Endowment Fund investments....	\$ 79,181	\$ 74,367
Contributions for specific purposes.....	52,675	54,187
Operating Fund appropriation for mechanical plant depreciation (contra).....	10,000	10,000
Sundry receipts.....	62,292	63,541
Gain on sale of restricted fund securities.....	3,271	7,161
	<u>\$ 207,419</u>	<u>\$ 209,256</u>
EXPENDITURES:		
Transferred to Operating Fund to apply against expenditures (contra).....	\$ 124,301	\$ 247,622
Added to Endowment Fund principal.....	55,000	70,000
	<u>\$ 179,301</u>	<u>\$ 317,622</u>
EXCESS (DEFICIENCY) OF RECEIPTS OVER EXPENDITURES.....	<u>\$ 28,118</u>	<u>\$ (108,366)</u>

THE TRUSTEES,
CHICAGO NATURAL HISTORY MUSEUM:

In our opinion, the accompanying statement presents fairly the receipts and expenditures of the current funds of Chicago Natural History Museum for the year ended December 31, 1960, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year. Our examination of the statement was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

ARTHUR YOUNG & COMPANY

Chicago, Illinois
January 21, 1961

USE DURING 1960 OF SPECIAL FUNDS CONTRIBUTED IN FORMER YEARS

EDWARD E. AYER LECTURE FOUNDATION	
Cost of Museum lecture series.....	\$ 4,430.25
Subsidy to publication program.....	1,559.39
FREDERICK AND ABBY KETTELLE BABCOCK FUND	
Subsidy to publication program.....	1,998.74
MRS. T. B. BLACKSTONE FUND	
Purchase of specimens.....	350.00
EMILY CRANE CHADBOURNE ZOOLOGY FUND	
Purchase of specimens.....	347.50
Field trip.....	375.00
WILLIAM J. AND JOAN A. CHALMERS TRUST FUND	
Purchase of specimens.....	134.10
MRS. JOAN A. CHALMERS BEQUEST FUND	
Purchase of specimens.....	174.25
Laboratory equipment.....	325.50
CONOVER GAME-BIRD FUND	
Purchase of specimens.....	1,686.70
Purchase of field equipment.....	1,541.56
Harry A. Beatty Expedition.....	1,125.00
D. S. Rabor Expedition.....	4,047.72
THOMAS J. DEE FELLOWSHIP FUND	
Fellowship grants to	
Dr. J. A. Roze.....	300.00
Rev. H. B. Herrington.....	600.00
Miss Mona R. J. Edwards.....	150.00
GROUP INSURANCE FUND*	
Group insurance costs.....	6,451.06
Subsidy to Pension Fund.....	4,500.00
N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND	
Preparation, care, and distribution of exhibits to schools of Chicago	24,500.23
THE JOHNSON FOUNDATION	
Research on waxy palms.....	2,963.87
BERTHOLD LAUFER MEMORIAL FUND	
Purchase of specimens.....	1,500.00
LIBRARY FUND†	
Purchase of books and periodicals.....	7,582.96
MUSEUM PURCHASE FUNDS	
Purchase of specimens.....	2,122.53
NATIONAL SCIENCE FOUNDATION	
Research subsidies (various).....	20,187.56
JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURE FUND	
Subsidy to public school and children's lecture program.....	34,448.72
DONALD RICHARDS FUND	
Subsidy to cryptogamic botanical research.....	330.00
MAURICE L. RICHARDSON PALEONTOLOGICAL FUND	
Field trip to Wyoming.....	800.00
Purchase of specimens.....	100.00
KARL P. SCHMIDT FUND	
Study grants.....	288.00

These funds have been used in accordance with the stipulations under which they were accepted by the Museum. In addition, the income from more than \$15,000,000 of unrestricted endowment funds was used in general Museum operation.

* Established by Stanley Field

† Established by Edward E. Ayer, Huntington W. Jackson, Arthur B. Jones, and Julius and Augusta N. Rosenwald

Contributions and Bequests

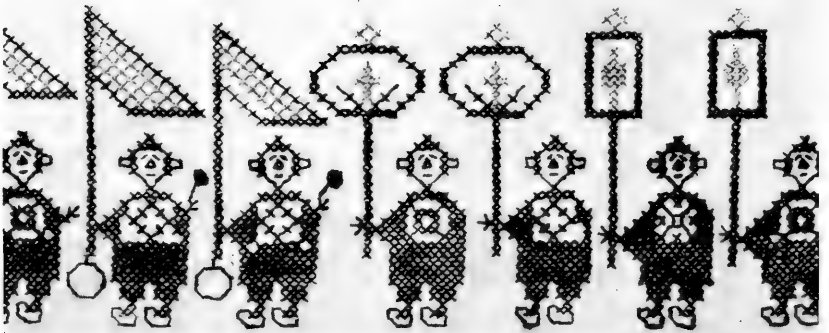
Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 20 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax

DETAIL OF EMBROIDERED PIECE



FROM COLLECTION OF CHINESE TEXTILES PURCHASED IN 1960

ACCESSIONS 1960

DEPARTMENT OF ANTHROPOLOGY

BAKER, MR. AND MRS. HERBERT J., Chicago: ethnological specimens—New Guinea (gift)

BARBER, COURTENAY, JR., Chicago: ethnological specimens—United States plains and New Guinea (gift)

BUJAK, WALTER, Cleveland: ink rubbing of Maya carving and inscription—Palenque, Chiapas, Mexico (gift)

CARR, MRS. WALTER S., Chicago: 2 pottery vessels—southwestern United States (gift); 2 mate cups (each with sipping tube)—Argentina (gift); 1 lantern—China (gift)

CHICAGO NATURAL HISTORY MUSEUM:
Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1960): 575 stone, bone, shell, and baked-clay artifacts, 12 pottery vessels, 2 skeletons, 1 human cranium, 41 charcoal and wood samples for dating, potsherds, charred corn cobs, pigment samples, and unworked bone

Purchases: 4 masks from Belgian Congo, 1 Hawaiian necklace, 1 bracelet, 1 chisel and 2 pottery vessels from Peru, Chinese puppets, Chinese rubbings, and collection of Chinese textiles

COWLES, ALFRED, Chicago: 4 Navaho blankets and 1 Indian necklace—southwestern United States (gift)

DAILEY, ARTHUR A., Evanston, Illinois: effigy pottery vessel—Chile (gift)

DAVIS, D. DWIGHT, Richton Park, Illinois: piece of bark cloth—Ituri Forest, Congo (gift)

EASBY, MR. AND MRS. DUDLEY T., JR., New York: painting of New Britain dance mask (by Miguel Covarrubias)—Mexico (gift)

FARBER, MRS. MAUDE A., Chicago: ethnological specimens—Australia (gift)

FARYASZEWSKA, MRS. L., Luluabourg, Belgian Congo: Asalampasu mask—Belgian Congo (gift)

FLOUNDERS, BEN, Whyalla, South Australia: 34 stone tools—Australia (gift)

FREDERICK, MR. AND MRS. CLARENCE L., Chicago: ethnological specimens—Africa (gift)

FULLER, CAPTAIN AND MRS. A. W. F., London: carved temple idol—Cook Islands (gift)

GRAFE, ROBERT, Chicago: skull and archaeological objects—Ontario County, New York (gift)

HAYES, FRANK L., Evanston, Illinois: ax—Africa (gift); Kukri knife—India (gift)

HOLABIRD, MRS. JOHN A., Chicago: Navaho textiles—southwestern United States (gift)

INSTITUTO DE INVESTIGACIONES CIENTIFICAS, Caracas, Venezuela: 26 type artifacts of stone of Paleo-Indian El Jobo complex—Venezuela (exchange)

KOEHLER, MARTIN D., River Grove, Illinois: photographs of petroglyphs—Glen Canyon, Utah (gift)

MICHIGAN ARCHAEOLOGICAL SOCIETY, WRIGHT L. COFFINBERRY CHAPTER, Grand Rapids, Michigan: 2 Woodland jars and 1 sherd—Oceana County, Michigan (exchange)

MUELLER, MR. AND MRS. FRED, AND MRS. PAULINE TUCK, Chicago: ethnological specimens—Samoa (gift)

TAUBENHAUS, MRS. JOSEPHINE, Chicago: Ming lacquer and brass box—China (gift)

THACKER, ROBERT P., Chicago: model of Kusai house—Micronesia (gift)

TUCK, MRS. PAULINE
(see MUELLER)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: type collection of prehistoric pottery—British Guiana (exchange)

WALTER, MRS. ALLAN W., Kenilworth, Illinois: Hupa hat basket and Mono covered basket—California (gift)

WHITE, MRS. JOSEPH, Chicago: decorated leather pouch—Africa (gift)

WIELGUS, MR. AND MRS. RAYMOND, Chicago: Maori canoe prow carving—New Zealand (exchange); carved and painted zoomorphic wooden seat and gourd smoking-pipe—New Guinea (gift); necklace—Hawaii (gift); prehistoric ceramic bowl—Peru (gift)

DEPARTMENT OF BOTANY

AMERICAN GUM IMPORTERS LABORATORY, INC., New York: 12 samples of various natural resins (gift)

AMERICAN VISCOSE CORPORATION, Fredericksburg, Virginia: 2 samples of synthetic gums (gift)

ARMSTRONG CORK COMPANY, Lancaster, Pennsylvania: 6 samples of various cork products (gift)

BENNETT, HOLLY REED, Chicago: 3,566 specimens of vascular plants (gift)

BISCHOFF, HARRY W., Austin, Texas: 2 type specimens of *Chlamydomonas microphila* (gift)

BOND CROWN AND CORK COMPANY, Chicago: samples of various cork products (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 198 specimens of vascular plants (exchange)

CALIFORNIA, UNIVERSITY OF, Berkeley: 156 specimens of vascular plants (exchange)

CALIFORNIA AT LOS ANGELES, UNIVERSITY OF, Los Angeles: 33 specimens of vascular plants (gift)

CHICAGO NATURAL HISTORY MUSEUM:
Purchases: 67 specimens of Malayan ferns, 477 specimens of South American vascular plants

Transfer: specimen of amber—from Department of Geology, Chicago Natural History Museum (see Annual Report 1894-95 [vol. 1, no. 1, 1895], page 30, Accessions, Department of Geology, and page 51, Purchases, Department of Geology)

CORN PRODUCTS COMPANY, New York: samples of yellow dextrine, white dextrine, and British gum (gift)

CORNELL UNIVERSITY, Ithaca, New York: 46 specimens of vascular plants (exchange)

CULBERSON, DR. WILLIAM L., Durham, North Carolina: 2 type specimens of *Parmelia confoderata* Culberson and *Physcia culbersonii* Thomson (gift)

DEASON, DR. TEMD R., Austin, Texas: 21 type specimens of algae (gift)

DOW CHEMICAL COMPANY, Midland, Michigan: samples of 3 kinds of "Methocel" for use in exhibit on gums (gift)

FOREST HERBARIUM, Forest Research Station, Ibadan, Nigeria: 3 specimens of *Cedrela* (gift)

FREELAND, R. O., Evanston, Illinois: 2 specimens of mosses (gift)

GIBSON, MRS. DOROTHY, Chicago: 2 vials of seed samples (gift)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 1 specimen of *Castanea mollissima* and 2 specimens of mosses (gift)

HAYNIE, MISS NELLIE V., Elmhurst, Illinois: 3,980 specimens of vascular plants (gift)

HAYS, JAMES D., Johnstown, New York: 8 slides of palm pollen (gift)

HUBACH, PROFESSOR E., Bogotá, Colombia: 4 fossil fruits of *Saccoglottis cipacoenensis* Berry (gift)

ILLINOIS STATE MUSEUM, Springfield: 5 specimens of vascular plants (gift)

ILLINOIS STATE NATURAL HISTORY SURVEY, Urbana: specimen of *Trichomanes Boschianum* Sturm. (exchange) and specimen of *Melochia corchorifolia* L. (gift)

INSTITUTO INTERAMERICANO DE CIENCIAS AGRICOLAS DE LA O. E. A., San José, Costa Rica: 31 specimens of vascular plants (gift)

IOWA, STATE UNIVERSITY OF, Iowa City: 173 specimens of vascular plants (exchange)

ISILDAR, DR. FIKRET, Canton, Ohio: 2 packages of Turkish cigarettes (gift)

JARDIM BOTANICO DO RIO DE JANEIRO, Rio de Janeiro, Brazil: 409 specimens of vascular plants (exchange)

JOHNSTON, DR. IVAN M. (deceased), Cambridge, Massachusetts: fossil fruit of *Saccoglottis* (gift)

KANSAS, UNIVERSITY OF, Lawrence: 150 specimens of vascular plants (exchange)

KELCO COMPANY, Chicago: 3 samples of algin products (gift)

LANKESTER, CHARLES H., Cartago, Costa Rica: 1 specimen of *Eschweilera calyculata* Pittier and 2 specimens of *Epidendrum serricardium* Schltr. (gift)

LAWRANCE, ALEX E., Natal, British Columbia, Canada: 17 specimens of vascular plants (gift)

MACDOUGALL, THOMAS, Tehuatipec, Mexico: specimen of *Dahlia scapigera* (gift)

MARSHALL, FRANK F., Ridgeway, Pennsylvania: samples of various tannins and tannin extracts (gift)

MEER CORPORATION, New York: sample of gum labdanum (gift)

MINNESOTA, UNIVERSITY OF, Minneapolis: 68 specimens of vascular plants (exchange)

MISSOURI BOTANICAL GARDEN, St. Louis: 7 specimens of Scrophulariaceae (gift) and 299 specimens of vascular plants (exchange)

MORNINGSTAR-PAISLEY, INC., New York: samples of various gums and gum sources (gift)

MORTON, DR. FRIEDRICH, Salzburgmergut, Austria: 5 larch-needle lake balls (gift)

MORTON, MRS. JULIA F., Coral Gables, Florida: tube of lipstick made from *Bixa orellana* derivative and descriptive pamphlet (gift)

MUSÉUM NATIONAL D'HISTOIRE NATURELLE, Paris: 980 specimens of vascular plants (exchange)

PABST, DR. GUIDO F. J., Rio de Janeiro, Brazil: 202 specimens of vascular plants (exchange)

PALSER, DR. BARBARA, Chicago: 17 specimens of Ericaceae (gift)

PAN AMERICAN PETROLEUM CORPORATION, Tulsa, Oklahoma: 292 slides of various pollens (exchange)

PENICK, S. B., AND COMPANY, New York: samples of *Psyllium* seeds, husks, quince seeds, and talha gum (gift)

PHINNEY, DR. HARRY, Corvallis, Oregon: 4 slides of diatoms (gift)

RANSOM COMPANY, L. E., New York: 4 samples of dyestuffs (gift)

REICH, ROBERT J., Chicago: 130 specimens of vascular plants (exchange)

ROSS, WALTER S., ESTATE OF, Chicago: 32 framed prints from Robert J. Thornton's *The Temple of Flora* (gift)

SHERFF, DR. EARL E., Hastings, Michigan: 43 specimens of vascular plants (gift)

STEIN, HALL & CO., INC., New York: sample of *Cyamopsis psoraloides* seeds (gift)

STEYERMARK, DR. JULIAN A., Caracas, Venezuela: 3 specimens of *Cedrela* (gift)

STRAUCH CHEMICAL DISTRIBUTORS, Chicago: 6 samples of gums (gift)

SWINK, FLOYD A., Willow Springs, Illinois: 159 specimens of vascular plants (gift)

TENNESSEE, UNIVERSITY OF, Knoxville: specimen of *Herpetineuron toccoeae* (exchange)

TEXAS, UNIVERSITY OF, Austin: type-specimen of *Cassia arlindo-andradei* Hoehne (exchange)

THIERET, DR. JOHN W., Homewood, Illinois: 186 specimens of vascular plants (gift)

TRAVERSE, DR. ALFRED, Houston: 272 specimens of vascular plants (exchange)

UNI-GUM DIVISION, T. M. DUCKE & SONS, INC., Clifton, New Jersey: 4 samples of gums and extracts (gift)

UNITED STATES TESTING COMPANY, INC., Hoboken, New Jersey: samples of various tannins and extracts (gift)

VERMONT, UNIVERSITY OF, Burlington: 640 specimens of vascular plants of Pringle Collection (exchange)

WATSON, JOSEPH, New Albany, Indiana: 111 specimens of vascular plants (exchange)

WEST INDIES CHEMICAL WORKS, LTD., Spanish Town, Jamaica: 2 samples of dyewood and 4 samples of dyewood extracts (gift)

WILLIAMS, DR. LOUIS O., Park Forest, Illinois: 69 specimens of vascular plants, 2 photographs, and 1 copy of descriptive literature on Guatemalan Asteraceae (gift)

WILSON, DR. L. R., Norman, Oklahoma: 6 slides of pollen (2 each of Welwitschiaceae, Ephedraceae, and Gnetales) (exchange)

WISCONSIN, UNIVERSITY OF, Madison: 62 specimens of vascular plants (exchange)

WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Michigan: sample of Carbose D gum (gift)

WYOMING, UNIVERSITY OF, Laramie: 128 specimens of vascular plants (exchange)

YALE UNIVERSITY, SCHOOL OF FORESTRY OF, New Haven, Connecticut: 53 specimens of vascular plants (exchange)

YUNCKER, DR. T. G., Greencastle, Indiana: type-specimen of *Cuscuta Warneri* Yuncker (gift)

DEPARTMENT OF GEOLOGY

ANDERS, DR. EDWARD, Chicago: iron meteorite slice (Sikhote-Alin)—eastern Siberia (gift)

APPLEGATE, SHELTON P., Chicago: fossil invertebrates and vertebrates—various localities (gift)

ARMISTEAD, ROBERT L. (address lacking): fossil invertebrates—Florida (gift)

BELL, BRUCE, Flossmoor, Illinois: fossil invertebrates—Florida (gift)

BIEHL, VIANNA W., Lake Villa, Illinois: fossil femur of bear—Missouri (gift)

BUCKSTAFF, RALPH N., Oshkosh, Wisconsin: slice of iron meteorite (Angelica)—Wisconsin (exchange)

BUDLONG, SIMEON, Chicago: fossil vertebra of bison—Minnesota (gift)

CARTER COUNTY MUSEUM, Ekalaka, Montana: fossil invertebrates—locality lacking (exchange)

CHALMERS CRYSTAL FUND, WILLIAM J.: minerals—various localities (purchase)

CHICAGO NATURAL HISTORY MUSEUM:
Collected by Harry E. Changnon (field work, 1960): silt and limestone—Illinois

Collected by Dr. Robert H. Denison and Dr. Eugene S. Richardson, Jr. (Big Horn Mountains [Wyoming] Paleontological Field Trip, 1960): numerous fossil fishes and eurypterids—Wyoming

Collected by Dr. John W. Thieret (Northern Great Plains Botanical Field Trip, 1959): soil samples—Canada

Collected by Bertram G. Woodland (field work, 1958): lead ore, cores from mine bore, and Lamotte sandstone—Missouri

Collected by Dr. Rainer Zangerl and Dr. Eugene S. Richardson, Jr. (field work, 1960): numerous fossil fishes—Indiana

Collected by Zangerl, Richardson, and Woodland (field work, 1960): fossil invertebrates—Illinois

Purchase: fossil shark fragments—Kansas

Transfer: Ordovician graptolites—from Department of Zoology, Chicago Natural History Museum (see Annual Report 1959, page 72 [Fred Button Collection of mollusks] and page 122 [Accessions, Department of Zoology, "Purchases"])

CHICAGO, UNIVERSITY OF, Chicago: fossil reptiles—Texas (gift)

CUNNINGHAM, J. L., Chicago: snails (Pennsylvanian) replaced by pyrite—Illinois (gift)

DARTMOUTH COLLEGE MUSEUM, Hanover, New Hampshire: cast of fossil fish (gift)

DENISON, DR. ROBERT H., Evanston, Illinois: fossil fishes—Illinois (gift); casts of fossil fishes (gift)

DOERRER, MRS. ETHEL, Tinley Park, Illinois: fossil invertebrates—Illinois (gift)

DYBAS, HENRY S., Homewood, Illinois: fossil vertebrates—Kentucky (gift)

FREDRIKSSON, DR. KURT, Stockholm, Sweden: fragments of meteorites—various localities (exchange)

GAITHER, CHARLES C., El Paso, Texas: mineral—Texas (gift)

GIACOMELLI, LORENZO ORESTES, Buenos Aires, Argentina: fragments of stone meteorites—Argentina (gift)

GOESTON, EARL, AND PAUL COTTON, Chicago: skull of extinct giant beaver—Illinois (gift)

GUNDERSEN, PAUL H., River Grove, Illinois: fossil invertebrates—Illinois (gift)

HANNEN, MISS GERTRUDE, Chicago: snail (Pennsylvanian) replaced by pyrite—Illinois (gift)

HESTON, WILLIAM, Chicago: fossil invertebrates—South Dakota (gift)

HOWELL, DR. B. F., Princeton, New Jersey: invertebrate specimens—Newfoundland (gift)

HUPPERT, KARL H., Chicago: mastodon skeleton, turtle scraps, fossil vertebrates—Indiana (gift)

JOHNE, C. T., Kragero, Norway: stone meteorite fragment—Norway (gift)

JOHNSON, IRVING, El Monte, California: fossil fish teeth—California (gift)

KJELLESVIG-WAERING, ERIK N., Buenos Aires, Argentina: invertebrate fossils—various localities (gift)

KUHM, DR. H. W., Milwaukee, Wisconsin: fossil invertebrates—Tennessee (gift)

LANGSTON, DR. WANN, JR., Ottawa, Ontario, Canada: cast of fossil mammal (gift)

LINNARSON, AKI, Jonkoping, Sweden: minerals—Sweden (exchange)

LUCKNOW, UNIVERSITY OF, Lucknow, India: paleobotanical specimens—India (open exchange)

MCCLUNG, RICHARD, Chicago: eurypterid—Illinois (gift)

MCLUCKIE, JOHN, Coal City, Illinois: copper replicas of invertebrate fossils (gift)

MINERALOGICAL MUSEUM, Copenhagen, Denmark: minerals—Greenland (exchange)

MOORE, MICHAEL, Hinsdale, Illinois: invertebrates—Illinois (gift)

MUSEO DE LA PLATA, La Plata, Argentina: 49 casts of fossil vertebrates (exchange)

NICKEL, DR. ERNEST, Ottawa, Ontario, Canada: minerals—Canada (gift)

OLSON, W. M., Newport, Washington: minerals—Washington (gift)

OSTROM, GERALD E., Winnetka, Illinois: minerals—locality lacking (exchange)

PARRIS, F. C., Inglewood, California: mineral—New Mexico (gift)

PRINCETON UNIVERSITY, Princeton, New Jersey: casts of vertebrates (exchange)

RITCHIE, ARTHUR, Olympia, Washington: minerals—locality lacking (gift)

SCHAEFFER, DR. BOBB, New York: fossil braincase of fish—Wyoming (gift)

SEGAL, SI, Chesterton, Indiana: fossil snail—Illinois (gift)

SEIFERT, MARTIN, Carrollton, Texas: fossil ammonites and mollusks—Texas (gift)

SHEEHAN, THOMAS R., Lee Center, Illinois: fossil cephalopod and gastropod—Illinois (gift)

SINKANKAS, JOHN, Arlington, Virginia (gift)

SLOAN, DR. ROBERT E., Minneapolis: cast of fossil fish-skull—South Dakota (gift)

SPOONER, CHARLES, Downsview, Ontario, Canada: minerals—Canada (gift)

STURTEVANT FUND, MR. AND MRS. ROY E.: minerals—New York (purchase)

TEXAS MEMORIAL MUSEUM, Austin: cast of fossil mammal skeleton (exchange)

TONRY, EDWARD T., Downer's Grove, Illinois: fossil crinoids—Illinois (gift)

WHITE, JAMES E., Pittsburgh: minerals—various localities (gift)

WHITTLESEY, DR. AND MRS. C. E., Glen Ellyn, Illinois: silicified algal matter—Wyoming (gift)

WOLLIN, JAY, Morton Grove, Illinois: fossil invertebrates—Iowa (gift)

WOODLAND, BERTRAM G., Homewood, Illinois: minerals—western Norway (gift); algal limestone—England (gift)

ZANGERL, DR. RAINER, Hazelcrest, Illinois: fossil invertebrates—Ohio (gift)

DEPARTMENT OF ZOOLOGY

ADLERBLUM, BURTON S., Oak Park, Illinois: turtle—Florida (gift)

BAKER, EMMETT B., Kingston, Massachusetts: approximately 500 mollusks—New England (gift)

BALL, DR. GEORGE, Edmonton, Alberta, Canada: 2 slides of sucking lice, 6 *Grylloblatta campodeiformis* [no common name]—Alaska (exchange)

BENESH, BERNARD, Burrville, Tennessee: 428 insects—Tennessee (gift)

BERRY, MRS. P. Y., Kuala Lumpur, Malaya: 3 frogs—Singapore (gift)

BISHOP MUSEUM, BERNICE P., Honolulu: 490 sets of marine shells—Pacific Ocean (exchange)

BLAUFUSS, ARNOLD H., Chicago: 4 worms—India (gift)

BONETTO, DR. ARGENTINO A., Santa Fe, Argentina: 45 freshwater clams—Argentina (gift)

BOO-LIAT, LIM, Kuala Lumpur, Malaya: 6 snakes—Malaya (gift)

BOULTON, RUDYERD, Salisbury, Southern Rhodesia: 50 birds—United States (gift)

BRAND, DR. LOUIS, Houston: approximately 8,000 mollusks—worldwide (gift)

BREELAND, DR. SAM, Wilson Dam, Alabama: 20 insects—Panama (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 1 snake—Borneo (exchange); 1 bird—Angola (exchange)

BROWN, MRS. W. D., Park Ridge, Illinois: approximately 50 snails—Texas (gift)

BUMZAHM, CARLOS BOYD, Chicago: 1 bat, 24 frogs, 2 lizards—Panama (gift)

BURGESS, DR. C. M., Honolulu: 20 mollusks—Hawaii (gift)

BUTOT, L. J. M., De Bilt (Utrecht), Netherlands: 4 landsnails—Java (gift)

CALIFORNIA AT LOS ANGELES, UNIVERSITY OF, Los Angeles: 50 fishes—various localities (gift)

CAMRAS, DR. SIDNEY, Chicago: 145 insects—United States (gift)

CARNEGIE MUSEUM, Pittsburgh: 25 birds—Angola, Philippines, and South and Central America (exchange)

CATE, CRAWFORD, Los Angeles: 2 snails—Hawaii (gift)

CHACE, EMERY P., San Diego: 55 snails—California and Oregon (gift)

CHENG, DR. THOMAS C., Easton, Pennsylvania: 6 bats—New Jersey (gift)

CHICAGO NATURAL HISTORY MUSEUM:

Collected by Harry A. Beatty (Guiana Zoological Expedition, 1960-61): 2 frogs, 20 lizards—Venezuela and Surinam

Collected by Dr. Robert F. Inger (Belgian Congo Zoological Expedition, 1959): 2 lizards—Belgian Congo

Collected by D. S. Rabor (Philippine zoological field work, 1959 and 1960): 1,783 birds, 84 mammals—Philippine Islands

Collected by Dr. Alan Solem: (West United States Field Trip, 1960) approximately 8,500 nonmarine mollusks—western United States; (with Mrs. Solem) (American Malacological Union Field Trip, 1960) 40 landsnails—Canada

Collected by Loren P. Woods (Great Lakes Zoological Field Work, 1960): 722 fishes—Lake Huron, Lake Michigan, and Lake Superior; 29 salamanders—Michigan

Purchases: 614 mammals, 1,198 birds, 112,068 insects and 243 pieces of Baltic amber with insect inclusions, 379 fishes, 814 reptiles and amphibians, 26,103 lower invertebrates

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 13 mammals, 5 birds, 11 reptiles and amphibians—worldwide (gift)

CHIN PHUI KONG, Jesselton, North Borneo: turtle—North Borneo (gift)

CINCINNATI, UNIVERSITY OF, Cincinnati: bird—Honduras (exchange)

COBB, N. A., AND DEAN L. MURRAY, Battle Creek, Michigan (Cobb-Murray Expedition to India, 1958): 3 mammals—India (gift)

CORNFIELD, DANIEL AND DEBORAH, Riverdale, New York: 8 lots of freshwater mollusks—Wisconsin (gift)

CRAIGHEAD, DR. JOHN E., Boston: 3 lizards—Panama (exchange)

CROWELL, DR. ROBERT M., Canton, New York: 17 slides of water mites—Ohio (gift)

DAHLGREN, DR. B. E., Chicago: pair of walrus tusks—Alaska (gift)

DRAKE, DR. CARL J., Washington, D.C.: 12 bugs—Brazil, Japan, and Australia (gift)

DRAKE, ROBERT J., Vancouver, British Columbia, Canada: 2 landsnails—Mexico (gift)

DROPKIN, DR. VICTOR, Beltsville, Maryland: 302 insects—Texas (gift)

DUARTE, ELISEO, Montevideo, Uruguay: 72 sets of mollusks—Uruguay (exchange)

DUBRUL, DR. E. LLOYD, Chicago: dog skull—locality lacking (gift)

DVORAK, STANLEY J., Chicago: 4 mollusks—Mexico, Australia, and Philippine Islands (gift)

DYBAS, HENRY S., Homewood, Illinois: bat—Michigan (gift)

ELBEL, ROBERT E., Norman, Oklahoma: 60 slides of biting lice—Thailand and United States (gift)

EMERSON, DR. ALFRED E., Chicago: snake and lizard—India (gift)

FLEMING, DR. ROBERT L., Kathmandu, Nepal: 6 birds, 3 lizards, 7 snakes, 2 fishes, 1 hairworm—Nepal (gift)

FLORIDA, UNIVERSITY OF, Gainesville: 11 bats—Bahama Islands, Panama, and Guatemala (gift and exchange)

FLORIDA STATE MUSEUM, Gainesville: bat skull—British West Indies (gift)

FREDERICK, MRS. C. L., Chicago: bird—Dutch New Guinea (gift); 45 sets of seashells—Pacific Ocean (gift)

FULLER, CAPTAIN A. W. F., London: cat skull—Marquesas Islands (gift)

GENERAL BIOLOGICAL SUPPLY HOUSE, Chicago: caecilian—India (gift)

GHAFFARY, DR. N., Tehran, Iran: 9 snakes—Iran (gift)

GREENBERG, NATE, Elmhurst, Illinois: 4 mounted birds—Mexico, Brazil, and Comorro Islands (gift)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 17 insects—Indiana and Europe (gift); snake—Indiana (gift)

HAAS, DR. GEORG, Jerusalem: 1 frog, 3 lizards, 1 turtle—Israel (exchange)

HAILE, N. S., Kuching, Sarawak: 63 frogs, 2 lizards—Sarawak (gift)

HALL, JACK C., Riverside, California: 20 bee-flies—United States (gift)

HEDDEN, CHESTER, Worthington, Ohio: snake—Ohio (gift)

HENDRICKSON, DR. JOHN R., Kuala Lumpur, Malaya: 3 frogs—Malaya (gift)

HERRINGTON, REV. H. B., Westbrook, Ontario, Canada: 46 sets of freshwater clam shells—Canada (exchange)

HERSHKOVITZ, PHILIP, South Holland, Illinois: 200 reprints of publications on mammals (gift to Reprint Library, Division of Mammals)

HILLENUS, DR. DIRK, Amsterdam, Netherlands: 2 frogs, 3 snakes, 2 turtles—Indonesian East Indies (exchange)

HOLLOWAY, MISS MARY ANN, Barrington, Illinois: fish—Lake Michigan (gift)

HOOD, JAMES R., Chattanooga, Tennessee: 23 landshells—Bermuda (gift)

HOOGSTRAAL, HARRY, Cairo, Egypt: 665 mammals, 384 birds, 57 reptiles and amphibians, 26 slides of biting lice from birds, approximately 240 mollusks—Egypt and Sudan (gift)

HOWARD, MRS. FAYE B., Pacific Palisades, California: 295 mollusks—Mexico and Panama (gift)

HUBRICHT, LESLIE, Louisville, Kentucky: 28 lots of landshells—United States (gift)

INES, MADAME CARLOTA, PRINCESS SIGISMUND OF PRUSSIA, Barranca, Costa Rica: 8 mammals—Costa Rica (gift)

INGER, DR. ROBERT F., Homewood, Illinois: bat—Missouri (gift)

INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE, Brussels: 357 fishes—Belgian Congo (exchange)

JACKSON, RALPH, Cambridge, Maryland: 8 landsnails—Ecuador (gift)

JEFE DEL LABORATORIO DE VERTEBRADOS FOSSILES, INSTITUTO MIGUEL LILLO, San Miguel de Tucuman, Argentina: 3 rats—Argentina (exchange)

JOHNSTONE, MRS. KATHLEEN, Mobile, Alabama: 15 shells—Alabama and Florida (gift)

JONES, ROBERT D., JR., Cold Bay, Alaska: 4 birds—Alaska (gift)

KANSAS, UNIVERSITY OF, Lawrence: lizard—Ceylon (exchange)

KAWAGUTI, DR. SIRO, Okayama, Japan: bivalved snail—Japan (gift)

KIRK, RICHARD G., Chicago: nematoid worm—Chicago (gift)

KLAWE, DR. W. L., La Jolla California: 4 lizards—Cocos Islands (gift)

KOOPMAN, DR. KARL F., Chicago: racoon skull—Illinois (gift); 10 reprints of publications on mammals (gift to Reprint Library, Division of Mammals)

KRAUSS, DR. N. L. H., Honolulu: 25 reptiles and amphibians—various localities (gift); 2 insects—Cuba and Ceylon (gift)

KRULIK, MICHAEL, Chicago: tadpole—Africa (gift)

KUNTZ, DR. ROBERT E., care of APO, San Francisco: 1,551 reptiles and am-

phibians—Borneo and Formosa (gift); 4 mammals—Formosa (gift)

LAMOTTE, DR. MAXIME, Paris: 13 lots of frog larvae—West Africa (exchange)

LIEM, KIM HING, Bandung, Java: 3 fishes—Java (gift)

LINCOLN PARK ZOOLOGICAL SOCIETY, Chicago: young gorilla—Africa (gift)

LOVERIDGE, ARTHUR, Saint Helena: 6 lizards—Saint Helena and Ascension (gift)

MALKIN, BORYS, Seattle: 260 mollusks—Europe (gift)

MARX, VICTOR E., Chicago: giant clam—Guam (gift)

MCCALLUM, MRS. GLADYS, Westford, Massachusetts: 39 sets of shells and other lower invertebrates—New England (gift)

MCDANIELS, DR. H. E., Chicago: 3 bats—Illinois (gift)

MCILHENNY, W. S., Avery Island, Louisiana: crocodile skin—locality lacking (exchange)

McKEE, DR. H. S., Canberra, Australia: 3 landsnails—New Caledonia (gift)

MENZIES, DR. J. I., Bo, Sierra Leone: 66 frogs, 3 lizards, 1 caecilian—Sierra Leone (gift)

MICHIGAN, UNIVERSITY OF, Ann Arbor: 32 fishes—United States, 59 reptiles and amphibians—various localities (exchange)

MINTON, DR. SHERMAN A., JR., Karachi, Pakistan: 4 lizards, 1 snake—Pakistan (gift)

MUSÉE ROYAL DU CONGO BELGE, Tervuren, Belgium: 10 frogs—Africa (exchange)

MUSEO CIVICO DI STORIA NATURALE "G. DORIA," Genoa, Italy: 25 reptiles and amphibians—Europe and Africa (exchange); 12 fishes—Corsica and Genoa (exchange)

MUSEO DE BIOLOGIA, UNIVERSIDAD CENTRAL DE VENEZUELA, Caracas: snake Venezuela (exchange)

MUSEUM AND ART GALLERY, Durban, Union of South Africa: bird—Africa (exchange)

MUSEUM NATIONAL D'HISTOIRE NATURELLE, Paris: frog—Burma (exchange)

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: 2 lizards, 4 frogs, 465 mollusks—worldwide (exchange); 60 batflies—Central and South America (gift)

NABEL, MRS. BERNARD R., Naperville, Illinois: 1,200 shells—Grand Cayman Island (gift)

NATURHISTORISCHES MUSEUM WIEN, Vienna, Austria: 2 lizards—Sumatra (exchange)

NATUR-MUSEUM UND FORSCHUNGS-INSTITUT "SENCKENBERG," Frankfurt-am-Main, Germany: 2 frogs—Cameerons (exchange)

ORIENTAL INSTITUTE, Chicago: 2 fishes, 65 reptiles and amphibians—Iran (gift)

PAIN, T., London: 5 landsnails—Venezuela and Colombia (exchange)

PASTEUR, DR. GEORGE, Rabat, Morocco: 2 lizards—Morocco (exchange)

PERRET, DR. JEAN-LUC, Foulassi Sangmelima, Cameroun, French West Africa: 102 frogs—French West Africa (exchange)

PFAFF, DR. REINALDO, Cartagena, Colombia: 8 marine shells—Rosario Islands (gift)

POLSKA AKADEMIA NAUK, INSTYTUT ZOOLOGICZNY, Warsaw, Poland: 42 sets of land mollusks—Eastern Europe and Crete (exchange)

POPE, CLIFFORD H., Winnetka, Illinois: snake—Illinois (gift)

POYNTON, JOHN C., Pietermaritzburg, Natal, Union of South Africa: frog—Natal (gift)

PRICE, L., Kaitaia, New Zealand: approximately 500 mollusks—Australia and New Zealand (exchange)

PRICE, DR. MANNING A., College Station, Texas: 32 batflies—Mexico (gift)

RABB, DR. GEORGE, Brookfield, Illinois: 12 salamanders, 3 snakes—Alabama (gift)

RAFFLES MUSEUM, Singapore: 2 snakes, 5 frogs—Borneo and Malaya (exchange)

REIMER, DR. WILLIAM, Gainesville, Florida: 2 salamanders, 1 turtle—Florida (gift)

RIEDEL, DR. A., Warsaw, Poland: 64 snails—Siberia (exchange)

RIJCKSMUSEUM VAN NATUURLIJKE HISTOIRE, Leiden, Netherlands: 1 landsnail—Celebes (exchange); 1 frog—Sumatra (exchange); 20 snakes—Java (exchange)

ROCKY MOUNTAIN LABORATORY, Hamilton, Montana: 99 slides of chigger mites—North, Central, and South America (gift)

ROMER, J. D., Hong Kong: 10 frogs, 10 tadpoles—Hong Kong (gift)

ROSCOE, ERNEST J., Chicago: approximately 800 terrestrial and freshwater gastropods—Utah (gift)

SABINE, TED, Chicago: 3 lizards—Costa Rica (gift)

ST. PETERSBURG SHELL CLUB, St. Petersburg, Florida: approximately 1,500 marine shells—Florida (gift)

SAN DIEGO SOCIETY OF NATURAL HISTORY, San Diego: 80 landsnails—Pacific Ocean islands (gift)

SCHERPELTZ, DR. OTTO, Vienna, Austria: 23 rove beetles—various localities (gift)

SCHWENGEL, DR. JEANNE S., Scarsdale, New York: 1,045 mollusks—worldwide (gift)

SCRIPPS INSTITUTION OF OCEANOGRAPHY, La Jolla, California: fish—Pacific Ocean (gift)

SHEDD AQUARIUM, JOHN G., Chicago: 7 spiny lobsters—Florida (gift); 1 turtle—Bimini (gift)

SIMMONS, FRANK E., Oglesby, Texas: 10 landsnails—Texas (gift)

SMITH, ALLYN, Berkeley, California: 287 snails—United States (gift)

SMITH, MRS. F. A., St. Petersburg, Florida: approximately 100 landsnails—Florida (gift)

SOKOLOFF, DR. ALEXANDER, Chazy, New York: 200 flour-beetles—United States (gift)

SOLEM, DR. AND MRS. ALAN, Chicago: 112 landsnails—Kentucky and Tennessee (gift)

SPHON, GALE, Los Angeles, California: 191 marine snails—Lower California (gift)

STANFORD UNIVERSITY, Stanford University, California: 2 frogs—Philippine Islands (exchange); 2 fishes—British Guiana (gift)

SUKHANOV, DR. V. B., Moscow: 47 lizards—Russia (exchange)

SUMMERS, RAY, Petaluma, California: 16 mollusks—various localities (gift)

TALMADGE, ROBERT, Willow Creek, California: approximately 170 mollusks—California (exchange)

TANSILL, ROBERT W., Evanston, Illinois: 7 sets of seashells—Caroline Islands (gift)

TESKEY, MRS. MARGARET, Marinette, Wisconsin: 4 snail shells—Solomon Islands and New Zealand (exchange)

TIPTON, CAPTAIN VERNON J., Fort Amador, Canal Zone: 62 mammals—Canal Zone (gift)

UNITED STATES FISH AND WILDLIFE SERVICE, Pascagoula, Mississippi: 138 lots of fishes—Gulf of Mexico and Atlantic Ocean (gift); 42 lots of fishes—off eastern coast of United States (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: 135 beetles—North and Central America (exchange); 2 frogs—Siam (exchange)

UNITED STATES NAVAL MEDICAL RESEARCH UNIT No. 2, care of APO, San Francisco: 235 fishes—North Borneo (exchange)

UNIVERSIDAD NACIONAL DE COLOMBIA, Bogotá: 161 birds—Colombia (exchange)

VALLETTA, ANTHONY P., Birkirkara, Malta: 17 butterflies—Malta (gift)

WAFUL, MR. AND MRS. EDWARD E., Chicago: 43 sets of marine shells—California (gift)

WALTON, MUNROE L., Glendale, California: 15 landsnails—western United States (exchange); 30 nonmarine mollusks—California and Oregon (gift)

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 Betts, David H.
 Bichl, Thomas A.
 Biddle, Robert C.
 Biedermann, Lee F.
 Biehn, Dr. J. F.
 Bielinski, Dr. Henry E.
 Biersborn, Charles F.
 Bigelow, Mrs. Ann
 Biggers, Bryan B.
 Biggs, Mrs. Joseph H.
 Bigler, Dr. John A.
 Billow, Miss Virginia
 Billsten, Henry A.
 Bimmerle, Dr. John F.
 Binder, Miss Kay
 Birch, Dr. Carroll L.
 Bird, Miss Frances
 Bishop, Howard P.
 Bittel, Mrs. Frank J.
 Bittrich, Miss Grace
 Bixby, Edward Randall
 Bixby, George, Jr.
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 Blackburn, Oliver A.
 Blaine, James B.
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 Anita Carolyn
 Blair, Bowen
 Blair, Edward McC.
 Blair, Wm. McCormick
 Blair, Wolcott
 Blanksten, Samuel B.
 Blatchford, Dr. Frank
 Wicks
 Blecker, Mrs.
 Michael, Jr.
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 Blish, Charles C.
 Bliss, Vincent R.
 Block, Joseph L.
 Block, Leigh B.
 Block, Mrs. Leigh B.
 Block, Philip D., Jr.
 Block, Samuel W.
 Bloss, Mrs. Sidney M.
 Bluford, Mrs. David
 Blume, E. Henry
 Blumenschein, C. M.
 Blumenthal, Dr. Irving
 Blumenthal, Milton M.
 Blunt, J. E.
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 Boal, Thomas
 Bobrinskoy,
 Mrs. George V.
 Bodman, W. S.
 Boe, Archie R.
 Boericke, Mrs. Anna
 Boettcher, Arthur H.
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 Boomer, Dr. Paul C.
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 Booth, George E.
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 Borg, George W.
 Bori, Mrs. Albert V.
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 John Jay, II
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 Borwell, Robert C.
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 Bosch, Mrs. Henry
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 Roland I.
 Botts, Graeme G.
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 Bowen, Mrs. Clarence W.
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 Bowersox, W. A.
 Bowes, Arthur S.
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 Bowman, J. C.
 Bowman, Johnston A.
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 Boyer, Paul F.
 Boynton, A. J.
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 Bradway, Malcolm S.
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 Branch, Judson B.
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 Buchanan, L. B.
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 Butler, Paul
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 Jeannette
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 Chandler, Marvin
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 Chapman, Dave
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 Coulson, John S.
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 Davis, Dr. Loyal
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 de Dardel, Carl O.
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 Delaney, Frederick A.
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 Douglass, Mrs.
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 Duner, Joseph A.
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 Dunlop, Mrs. Simpson
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 Dyer, Robert T.

 Easterberg, C. J.
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 Ebeling, Frederic O.
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 Mylrea
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 Eckert, Theodore T.
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 Eichengreen, Edmund K.
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 Eisenberg, Sam J.
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 Eisendrath, Miss Elsa B.
 Eisenhower, Earl D.
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 Eisenstein, Sol
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 Ellies, E. E.
 Elliott, Mrs. Edwin P.
 Elliott, Frank R.
 Elliott, Miss Grace E.
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 Ellis, Howard
 Elmer, Mrs. Clarence W.
 Elting, Winston
 Elvgren, Gillette A.
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 Embree, J. W., Jr.
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 Engberg, Miss Ruth M.
 Engelman, Mrs. Robert S.
 English, Harold
 English, William L.
 Engstrom, Harold
 Entsminger, Samuel E.
 Epstein, Herman L.
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 Ericsson, Dewey A.
 Ericsson, Walter H.
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 Erman, Walter
 Ernest, Joseph R.
 Ernst, Mrs. Leo
 Escudier, A. F.
 Esgar, R. Rea
 Ettelson, Jerome
 Lawrence
 Etten, Henry C.
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 Evans, Eliot H.
 Evans, Vernon K.
 Everett, William S.
 Evers, John W.

 Fabrice, Edward H.
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 Factor, Mrs. Jerome
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 Faherty, Roger
 Faithorn, Walter E.
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 Falls, Dr. A. G.
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 Farrell, Mrs. Ernest H.
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 Faurot, Henry, Jr.
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 Fay, Eugene C.
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 Howard
 Feiwell, Morris E.
 Fellows, William K.
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 George
 Fennekohl, Mrs.
 Arthur C.
 Ferguson, R. W.
 Fernald, Robert W.
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 Fetzter, Wade, Jr.
 Fiduccia, Charles B.
 Field, Meyer
 Fiffer, Robert S.
 Filerman, Arthur
 Filkins, A. J.
 Fineman, Oscar
 Fink, Mrs. Frank
 Finley, Max H.
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 Edward R.
 Finnerud, Dr. Clark W.
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 Fitz Simmons, Dr. J.
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 Fleming, E. I.
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 Florsheim, Irving S.
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 Foote, Mrs. Harley T.
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 Foreman, Edwin G., Jr.
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 Forgan, Robert D.

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 Fox, Dr. Paul C.
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 Franke, Allyn J.
 Frankel, Jones B.
 Frankel, Louis
 Frankenstein, Lester E.
 Frankenstein, William B.
 Franklin, G. K.
 Frasier, Richard C.
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 Freda, Dr. Vincent C.
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 Clarence L.
 Freeto, Clarence E.
 Freiler, Abraham J.
 Frenier, A. B.
 Freudenthal, G. S.
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 Freund, Mrs. J. Dennis
 Frey, Charles Daniel
 Freyn, Henry J.
 Fridstein, Meyer
 Friedberg, Dr. Stanton A.
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 Friedman, Norman B.
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 Fritsch, Miss Josephine
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 Frystak, A. J.
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 Fuller, Mrs. Gretta
 Patterson
 Fuller, J. E.
 Fuller, Judson M.
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 Fulton, Paul C.
- Gabriel, Adam
 Gaertner, William
 Gale, Willis
 Galgano, John H.
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 Gall, Harold J. F.
 Gall, Harry T.
 Gallup, Rockwell L.
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 Rickcords
 Galt, Mrs. A. T.
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 Gamble, E. Ross
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 Garden, Hugh M. G.
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 Gerding, R. W.
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 Gittleman, Frank E.
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 Gibson, Truman K., Jr.
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 Gidwitz, Victor E.
 Gidwitz, Willard
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 Gilchrist, Mrs. William
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 Glassner, James J.
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 Gluck, Gerson, I.
 Glore, Robert Hixon
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 Goldstein, Dr. Helen L.
 Button
 Goldstein, Nathan S.
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 Gomborg, Dr. Harry
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 Goodwin, George S.
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 Grawoig, Allen
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 Gustafson, Carl I.
 Gustafson, Gilbert E.
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 Hales, Mrs. Burton W.
 Hales, Burton W., Jr.
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 Harvey, Byron, III
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 Harwood, Thomas W.
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 Healy, Vincent Jerrems
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 Heaton, Herman C.
 Hecht, Kenneth G.
 Hecht, Myron A.
 Hedin, Walter L.
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 Hefner, Adam
 Heggie, Miss Helen
 Heide, Mrs. Bernard H.
 Heinzelman, Karl
 Heinzen, Mrs. Carl
 Heisler, Francis
 Heldmaier, Miss Marie
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 Heller, John A.
 Heller, Mrs. Florence G.
 Hellman, George A.
 Hellyer, Walter
 Helmich, Miss Lenore
 Hemphill, James C.
 Henderson, Kenneth M.
 Henkel, Frederick W.
 Henley, Dr. Eugene H.
 Henschel, Edmund C.
 Herbst, LeRoy B.
 Herdina, Jerry
 Hermann, Grover M.
 Herron, James C.
 Herron, Mrs. Oliver L.
 Hertz, Mrs. Fred
 Hertzberg, Lawrence
 Herz, Mrs. Alfred
 Herz, J. H.
 Hesse, E. E.
 Heverly, Earl L.
 Hibbard, Mrs. W. G.
 Hibben, Joseph W.
 Hieber, J. Patrick
 Hildebrand, Dr. Eugene, Jr.
 Hildebrand, Grant M.
 Hilker, Mrs. Marion
 Hill, Carlton
 Hill, Dormand S.
 Hill, Rolwood R.
 Hill, Mrs. Russell D.
 Hill, Stacy H.
 Hille, Dr. Hermann
 Hillier, William H.
 Hind, Mrs. John Dwight
 Hines, Charles M.
 Hinkson, Dr. G. Duncan
 Hinman, Mrs. Estelle S.
 Hinrichs, Henry, Jr.
 Hintz, Mrs. Aurelia Bertol
 Hirsch, Albert
 Hirsch, Edwin W.
 Hirsch, LeRoy E.
 Hirstenstein, Robert E.
 Histed, J. Roland
 Hixon, Mrs. Robert
 Hobbs, Russell D.

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- Hodges, F. Robert
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 Charles R., Jr.
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 Elizabeth
Hoffman, Edward
 Hempstead
Hoffmann, Dr. Eugene
Hoffman, Raymond A.
Hogan, Robert E.
Hokenson, Howard G.
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Holderby, Glen W.
Holinger, Dr. Paul H.
Holland, M. J.
Hollander, Mrs. Samuel
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Holleb, A. Paul
Hollenbach, Louis
Holliday, W. J.
Hollins, Gerald
Holloway, Allen D.
Holloway, J. L.
Holmberg, Mrs.
 Adrian O.
Holmblad, Dr.
 Edward C.
Holmburger, Max
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Holmes, J. A.
Holmes, William
Holmes, William N.
Holt, Miss Ellen
Holt, McPherson
Holub, Anthony S.
Holzheimer, Carl
Hooper, Miss Frances
Hoover, Mrs. Fred W.
Hoover, H. Earl
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Hornburg, Arthur C.
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Horween, Isidore
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- Houck, Irvin E.
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Hough, Frank G.
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Howard, Howell H.
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Howe, Miss Amy L.
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Howe, Ralph B.
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Howson, Louis R.
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 Brookes
Huber, Dr. Harry Lee
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 Katherine J.
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Hughes, John E.
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Hust, George
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Hutchinson, Foye P.
Hutchinson, Samuel S.
Huth, Frank D.
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Idelman, Bernard
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Igoe, Michael L., Jr.
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Ilg, Paul F.
- Illich, George M., Jr.
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Ingersoll, Mrs. S. L.
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Inlander, N. Newton
Inlander, Samuel
Irons, Dr. Ernest E.
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Isaacs, Roger D.
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Isham, Henry P.
Isham, Henry P., Jr.
Isom, W. R.
Ives, Clifford E.
Ives, George R.
- Jackson, Allan
Jackson, Archer L.
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Jacobs, Julius
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Jacobson, Arent J.
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Jameson, Clarence W.
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Janson, Dr. C. Helge M.
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Jerger, Wilbur Joseph
Jessen, Floyd E.
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Jetzinger, David
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Jirka, Dr. Frank J.
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Johnson, Dr. Adelaide
Johnson, Alvin O.
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Johnson, Herbert M.
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Jones, Dr. Margaret M.
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Kaiser, Dr. George D.
Kalnitz, Arnold B.
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Kamins, Dr. Maelyn M.
Kamm, Dr. Bernard A.
Kane, Jerome M.
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Kaplan, Nathan J.
Kaplan, Stanley A.
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Kaufmann, Dr. Gustav L.
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Kennedy Taylor L.
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Kern, H. A.
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Kern, Trude
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Klinetop, Mrs. Charles W.
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- Knickerbocker, Miss Paula
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Kramer, Leroy, Jr.
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Kribben, Arthur K.
Kribben, Delafield
Kridner, E. A.
Kritzer, Richard W., Sr.
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Kroehler, Kenneth
Kroeschell, Robert A.
Kropff, C. G.
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Krupnick, Samson
Kuh, Mrs. Edwin J., Jr.,
Kuhn, Frederick T.
Kuhn, Dr. Hedwig S.
Kuhn, Overton F.

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Kunstader, Sigmund W.
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Kurzdorfer, E. T.
Kutchins, Edmund
Kutza, Dr. Michael J.
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Laadt, Dr. John R.
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 Atchison
Lafin, Louis E., Jr.
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Lafin, Louis E., III
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 Josephine
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Lambrecht, Carl R., Jr.
Lampert, Wilson W.
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Lang, Gordon
Langdon, Lawrence E.
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 Alice R.
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 Tayloe
Lanman, Mrs.
 Edward Boylston
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Larson, L. S.
Larson, Mrs. Sarah G.
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Laterza, Michael F.
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Leadbetter, Gordon
- Leahy, George J.
Leahy, James F.
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Lebold, Samuel N.
Lebolt, John Michael
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Lee, David Arthur
Lefens, Miss Katherine J.
Lefens, Walter C.
Lehmann, Robert O.
Leichenko, Peter M.
Leight, Mrs. Albert E.
Leighton, George N.
Leith, John A.
Leland, Miss Alice J.
Leland, Mrs. Rosco G.
Leland, Samuel
Lennon, George W.
Lello, Herbert F.
Leonard, Arthur T.
Lerch, William H.
Leslie, John H.
Lessman, Gerhard
Le Tourneau, Mrs.
 Robert
Levering, J. E.
Levi, Julian H.
Levin, Robert E.
Levin, Sidney D.
Levinson, Mrs. Salmon O.
Levitau, Benjamin
Levitt, Dr. Le Roy P.
Levy, Alexander M.
Levy, Arthur G.
Lewis, Mrs. J. J.
Ley, Robert J.
L'Hommedieu, Arthur
Liebenow, J. Gus
Liebenson, Harold A.
Liguori, Sister Mary
Lilien, Mrs. K. K.
Lill, George, II
Lillyblade, Clarence O.
Lindar, Albert J.
Lindberg, Le Roy A.
Linden, John A.
Lindheimer, B. F.
Lingle, Harrison C.
Linn, Howard
Linn, Mrs. W. Scott
Lippman, Mrs. William
Litten, Chapin
Littig, Howard L.
Little, Mrs. E. H.
Littler, Harry E., Jr.
Livingston, Mrs.
 Milton L.
Lizzardo, Joseph F.
Llewellyn, Mrs. Ross
- Lloyd, William Bross, Jr.
Lodge, Robert H.
Loeb, Hamilton M.
Loewenberg, Israel S.
Loewenberg, M. L.
Loewenherz, Emanuel
Loewenstein, Richard M.
Loewy, Dr. Arthur
Logan, Seymour N.
Long, R. E.
Long, William E.
Loomis, D. P.
Loomis, Reamer G.
Lorber, Herbert J.
Lord, Arthur R.
Lord, John S.
Lord, Mrs. Russell
Lorentz, Arthur G.
Lotz, Philip W.
Loucks, Charles O.
Louer, Albert E. M.
Louis, Mrs. John J.
Loundy, Mrs. Mason A.
Lovgren, Carl
Lowe, William H.
Lowell, Arthur J.
Lowrie, Mrs. John M.
Lucey, Patrick J.
Ludgin, Earle
Ludolph, Wilbur M.
Lundy, Dr. Clayton J.
Luria, Herbert A.
Lurie, George S.
Lusk, R. R.
Lustgarten, Samuel
Lydon, Robert R.
Lyford, Harry B.
Lynch, J. W.
Lynch, William J., Jr.
Lyon, Charles H.
- Mabee, Mrs. Melbourne
MacArthur, Donald
Mac Cowan, Hervey L.
MacDonald, E. K.
MacIntyre, Mrs. M. K.
MacKenzie, William J.
Mackey, Frank J.
MacKiewich, Justin
Mackinson, Dr. John C.
Mackoff, Mrs. Saul
MacLean, Mrs.
 John A., Jr.
MacLellan, K. F.
MacMurray, Mrs.
 Donald
Macomb,
 J. deNavarre, Jr.
Madden, John
Madlener, Mrs.
 Albert F., Jr.

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- Madlener, Otto
 Madrin, Mrs. Charles
 Maehler, Edgar E.
 Magan, Miss Jane A.
 Magerstadt, Madeline
 Magid, Cecil E.
 Magnus, Albert, Jr.
 Magnuson, Mrs. Paul
 Maher, Dr.
 David Bremner
 Maher, Mrs. D. W.
 Maher, James P.
 Main, Walter D.
 Majka, F. L.
 Major, Ross O.
 Majors, Mrs. B. S.
 Makler, Joseph H.
 Maley, Alexander B.
 Maling, Albert
 Maller, Dr. Adolph M.
 Manasse, De Witt J.
 Mandel, Mrs. Aaron W.
 Mandel, Edwin F.
 Mandel, Miss Florence
 Mandel, Mrs. Robert
 Manegold, Mrs.
 Frank W.
 Manierre, Louis
 Manz, Mrs. Carolyn D.
 Maragos, Samuel C.
 Marchant, Miss Lilian
 Maremont, Arnold H.
 Mark, Griffith
 Marker, Van E.
 Markham, Mrs.
 Herbert I.
 Markus, Alfred S.
 Marovitz, Sydney R.
 Marquart, Arthur A.
 Marquardt, Dr.
 Gilbert H.
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 Marsh, Mrs. Marshall S.
 Marsh, Peter John
 Martin, Mrs. George B.
 Martin, George F.
 Martin, Samuel H.
 Martin, Wells
 Marx, Adolf
 Marx, Victor E.
 Marzluff, Frank W.
 Marzola, Leo A.
 Mason, Arnold D. K.
 Mason, Willard J.
 Masse, B. A.
 Masters, Eugene W.
 Masterson, Peter
 Mathesius, Mrs. Walther
 Mathis, Allen W.
 Matson, J. Edward
 Maurer, Dr. Siegfried
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 Maxwell, A. K., Jr.
 Maxwell, W. Stirling
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 Mayer, Herman J., Jr.
 Mayer, Isaac H.
 Mayer, Leo
 Mayer, Oscar G.
 Mayer, Robert B.
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 McAlvin, Mrs. James H.
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 McCarl, David N.
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 Clara L.
 McCloud, Thomas W.
 McClun, John M.
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 Chauncey
 McCormick, Howard H.
 McCormick, Lenader J.
 McCormick,
 Robert H., Jr.
 McCormick, Roger
 McCrea, Mrs. W. S.
 McCreight, Louis Ralph
 McCurry, Paul D.
 McCutcheon, Mrs.
 John T.
 McDavid, Raven I., Jr.
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 McDonald, E. F., Jr.
 McDonald, Lewis
 McDougal, C. Bouton
 McDougal, David B.
 McDougal, Mrs.
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 McDougal, Mrs. Mary
 McDougal, Mrs. Robert
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 McGurn, Matthew S.
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 McKellar, Donald
 McKenna, Charles H.
 McKinney, Mrs. Hayes
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 McLennan, Mrs.
 Donald R., Sr.
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 McMenemy, Logan T.
 McMillan, John
 McMillan, W. B.
 McNair, F. Chaloner
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 McNamara, Robert C.
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 McNulty, Joseph D.
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 McQuarrie, Mrs. Fannie
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 Ruth M.
 Mead, Dr. Henry C. A.
 Medsker, Dr. Ora L.
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 Mehn, Dr. W. Harrison
 Meidell, Harold
 Melcher, George Clinch
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 Melnick, Leopold B.
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 Merricks, Mrs. James W.
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 Mettenet, Francis X.
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 Metz, Carl A.
 Metzger, Roswell W.
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 Meyer, Dr. Charles A.
 Meyer, Charles Z.
 Meyerhoff, A. E.
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 Meyers, Jonas
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 Michaels, Everett B.
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 Beaupre
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Moore, Paul
Moore, Philip Wyatt
Mordock, John B.
Morey, Dr. Charles W.
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Elizabeth W.
Morgan, K. P.
Moroni, Aldo L.
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Morrison, James C.
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Morse, Leland R.
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Charles
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Wilbur C.
Munnecke, Wilbur C.

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Murphy, O. R.
Murphy, Robert E.
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Naess, Sigurd E.
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Nelson, Victor W.
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Newberger, Joseph
Michael
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Nichols, J. C.
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Nusbaum, Mrs.
Hermien D.

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O'Connell, Edmund
Daniel
O'Connor, John B.
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Offield, Wrigley
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O'Kieffe, De Witt
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Franklin
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Orr, Thomas C.
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Ott, Wendel Fentress
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Palmer, O. Earl
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Charles A.
Pandaleon, Costa A.

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 Pardee, Harvey S.
 Park, R. E.
 Parker, Miss Edith P.
 Parker, Norman S.
 Parker, Troy L.
 Parks, C. R.
 Parmelee, Dr. A. H.
 Parry, Mrs. Norman G.
 Patridge, Lloyd C.
 Paschen, Mrs. Henry
 Paschen, Herbert C.
 Pashkow, A. D.
 Patchen, Dr. Paul J.
 Patrick, Harry H.
 Patterson, Grier D.
 Patterson, R. Curtis
 Patterson, Thomas A.
 Patton, A. E.
 Patzelt, Miss Janet
 Peabody, Howard B.
 Peabody, Miss Susan W.
 Peacock, Charles D., III
 Pearl, Allen S.
 Pearce, Mrs. Langdon
 Pearson, George
 Albert, Jr.
 Peasley, Mrs. John R.
 Peirce, Albert E.
 Pellettieri, Dr. D. J.
 Pellicore, Dr.
 Raymond J.
 Pencik, Jan M.
 Percy, Mrs. Charles H.
 Perel, Harry Z.
 Perkins, Harry D.
 Perkins, L. B.
 Perlman, Daniel
 Perlman, Henry
 Perlman, Raymond L.
 Perrigo, Charles R.
 Perry, Mrs. I. Newton
 Peskin, Bernard M.
 Peterkin, Daniel, Jr.
 Peters, Harry A.
 Petersen, Jurgen
 Petersen, William O.
 Peterson, Mrs.
 Elizabeth F.
 Pettibone, Holman D.
 Pfaelzer, Miss
 Elizabeth W.
 Pflaumer, Robert E.
 Pflock, Dr. John J.
 Philipsborn,
 Herbert F., Sr.
 Philipsborn,
 Colonel M. M., Jr.
 Phillips, Dr. Herbert
 Morrow
 Phoenix, George E.
 Pick, Frederic G.
 Pierce, J. Norman
 Pierce, Paul, Jr.
 Pierson, Joseph B.
 Pierson, Roy J.
 Pillsbury, Mrs. C. S.
 Pink, Mrs. Ira M.
 Pirie, Mrs. Gordon L.
 Pirie, Mrs. John T.
 Pirie, Mrs. S. C., Jr.
 Pitts, Henry L.
 Plapp, Miss Doris A.
 Platt, Mrs. Robert S.
 Plochman, Cordelia G.
 Plummer, Comer
 Plunkett, Paul M.
 Pobloske, Albert C.
 Podell, Mrs. Beatrice
 Hayes
 Poister, John J.
 Pollak, Charles A.
 Polyak, Stephen, Jr.
 Pope, George J.
 Pope, Mrs. Henry, Jr.
 Pope, Herbert
 Pope, John W.
 Poppell, Tyson E.
 Poppenhagen, Henry J.
 Porter, Edward C.
 Porter, Mrs. Frank S.
 Porter, Henry H.
 Porter, L. W.
 Porter, Louis
 Porter, Mrs. Sidney S.
 Posey, Chester L.
 Post, Myron H.
 Pottenger, William A.
 Potter, Howard I.
 Potter, Dr. Robert Morse
 Potts, Albert W.
 Poulson, Mrs. Clara L.
 Powills, Michael A.
 Prall, Bert R.
 Pray, Max
 Preble, Robert C.
 Price, Frederick J.
 Price, John McC.
 Prince, Mrs. Arthur C.
 Prince, Harry
 Prince, Rev. Herbert W.
 Prince, Leonard M.
 Pritchard, Richard E.
 Pritikin, Marvin E.
 Pritzker, Mrs. Jack
 Probst, Marvin G.
 Prosser, Mrs. John A.
 Prussing, Mrs. R. E.
 Pucci, Lawrence
 Purcey, Victor W.
 Putterman, A. Jerry
 Puttkammer, E. W.
 Puzey, Russell V.
 Quick, Miss Hattiemae
 Quigley, Jack A.
 Racheff, Ivan
 Radebaugh, Richard J.
 Radford, George
 Radford, Mrs. W. A., Jr.
 Radovich, Miss Bessie
 Raff, Mrs. Arthur
 Raftree, Miss Julia M.
 Railton, Miss Frances
 Ramis, Leon Lipman
 Randall, Rev. Edwin J.
 Randall, Irving
 Raney, Mrs. R. J.
 Rankin, Miss Jessie H.
 Rathje, Frank C.
 Ratner, Walter B.
 Ray, Harold R.
 Raymond, Mrs.
 Howard D.
 Reach, Benjamin F.
 Reals, Miss Lucile
 Farnsworth, Jr.
 Redfield, William M.
 Reed, John S.
 Reed, Mrs. Lila H.
 Reed, Mrs. Philip L.
 Reeder, Howard C.
 Regan, Mrs. Robert G.
 Regenstein, Joseph, Jr.
 Regnery, Frederick L.
 Reid, Mrs. Bryan
 Reid, Bryan S., Jr.
 Reid, Robert H.
 Reilly, George A.
 Reilly, Vincent P.
 Reinecke, Lester W.
 Reisch, Mrs. Louis J.
 Remien, Miss
 Marie Katherine
 Renaldi, George J.
 Renn, Mrs. John A.
 Renouf, William
 Renshaw, Mrs. Charles
 Rentschler, Mrs.
 William H.
 Replogle, Dr. Fred A.
 Requa, Mrs. Charles
 Howard, Jr.
 Rew, Mrs. Irwin
 Reynolds, Mrs.
 G. William
 Reynolds, Harold F.
 Rhines, James E.
 Rhodes, Charles M.
 Rice, Mrs. Charles R.
 Rice, Laurence A.

ASSOCIATE MEMBERS (CONTINUED)

- Rich, Elmer
 Rich, Franklin J.
 Rich, Harry
 Richards, Mrs. Bartlett
 Richards, Donald
 Richards, Marcus D.
 Richardson, George A.
 Richter, Mrs. Adelyn W.
 Rickcords, Mrs.
 Francis Stanley
 Ridley, Douglas K.
 Rieg, George S.
 Rieser, Leonard M.
 Rietz, Elmer W.
 Rietz, Walter H.
 Riley, John H.
 Rinaldo, Philip S., Jr.
 Rindfleisch, Keith P.
 Ripstra, J. Henri
 Risdon, Russell R.
 Ritchie, Mrs. John
 Rittenhouse, Charles J.
 Roberts, Charles S.
 Roberts, Harry V.
 Roberts, William
 Munsell
 Robertson, Scott
 Robinson, Edward
 Robinson, R. W.
 Robinson,
 Theodore W., Jr.
 Robinson, William S.
 Roddewig, Clair M.
 Roderick, Solomon P.
 Rodgers, Dr. David C.
 Rodman, Thomas
 Clifford
 Rodman, Mrs. Hugh
 Roe, Frederick
 Roebuck, Mrs. A. S.
 Roehling, Mrs. Otto G.
 Roehm, George R.
 Rogers, Miss Annie T.
 Rogers, Mrs. George P.
 Rogers, Lester C.
 Roggenkamp, John
 Rolnick, Dr. Harry C.
 Romane, Julian J. (Pat)
 Rome, Samuel
 Roos, Miss Virginia M.
 Root, John W.
 Rosborough, Dr. Paul A.
 Rose, Miss Evelyn
 Rosen, M. R.
 Rosenbaum, Mrs.
 Edwin S.
 Rosenbaum, Mrs.
 Harold A.
 Rosenfeld, M. J.
 Rosenstone, Nathan
 Rosenstone, Samuel
 Rosenthal, J. F.
 Rosenthal, M. A.
 Rosenthal, Samuel R.
 Rosenwald, Richard M.
 Ross, Earl
 Ross, Robert C.
 Ross, Thompson
 Rotchford, J. Stuart
 Rotenberry, Dean
 Roth, Mrs. Margit
 Hochsinger
 Roth, Walter L.
 Rothacker, Watterson R.
 Rothschild, George
 William
 Rothschild,
 Melville N., Jr.
 Routh, George E., Jr.
 Rowan, Mrs. Paul
 Rozelle, Mrs. Emma
 Rubinson, Kenneth Alan
 Rubloff, Arthur
 Rubovits, Mrs. Frank E.
 Ruettinger, John W.
 Runnells, John S.
 Ruppert, Max K.
 Russell, Mrs. Mary H.
 Russell, Robert S.
 Rutledge, George E.
 Ryan, Arthur
 Ryan, Eugene F.
 Ryerson, Mrs.
 Donald M.
 Sackett, Samuel J.
 Sage, W. Otis
 Saks, Benjamin
 Salk, Erwin A.
 Salk, Dr. Melvin R.
 Salmon, Mrs. E. D.
 Saltzberg, Gerald B.
 Salzman, Charles N.
 Sample, John Glen
 Sampsell, Marshall G.
 Sampson, H. R.
 Samuelson, George
 Sandidge, Miss Daisy
 Sandquist, Elroy C., Jr.
 Sandler, George S.
 Sands, Mrs. Frances B.
 Sanow, Harry R.
 Santini, Mrs. Randolph
 Sargent, Chester F.
 Sargent, Ralph
 Sasser, Mrs. Fred H.
 Sauter, Fred J.
 Sawyer, Dr. Alvah L.
 Sawyier, Calvin P.
 Scalbom, G. Trumbull
 Schact, John H.
 Schaefer, Fred A.
 Schafer, Mrs. Elmer J.
 Schaffner, Mrs. L. L.
 Schanfield, Leonard
 Scharin, Mrs. J. Hippach
 Scheinman, Jesse D.
 Schenck, Frederick
 Schenk, Miss Marion H.
 Schick, Dr. Armin F.
 Schlatter, Miss Nina E.
 Schlichting, Justus L.
 Schloer, Harold J.
 Schloss, Harold W.
 Schmidt, Dr. Charles L.
 Schmidt, Mrs. Minna M.
 Schmitz, Dr. Henry
 Schneider, D. G.
 Schneider, F. P.
 Schnering, P. B.
 Schnering, Robert B.
 Schnur, Ruth A.
 Schnote, Dr. William J.
 Schoenhofen, Leo H.
 Scholl, Dr. William M.
 Schonne, Mrs.
 Charles W.
 Schreiner, Sigurd
 Schrey, Dr. Edward L.
 Schroeder, Paul A.
 Schuck, E. H.
 Schueren, Arnold C.
 Schulman, Dr. Jerome L.
 Schulze, Mrs. Cathilde
 Schupp, Philip C.
 Schurig, Robert Roy
 Schuyler, Mrs.
 Daniel J.
 Schwab, Laurence E.
 Schwander, J. J.
 Schwandt, Miss Erna
 Schwanke, Arthur
 Schwartz, Charles F.
 Schwartz, Charles K.
 Schwartz, Charles P.
 Schwartz, Edward H.
 Schwartz, Joseph H.
 Schwartz, Milton H.
 Schwartz, Nathan H.
 Schwartz, Dr. Otto
 Schwartz, Dr. Steven O.
 Schwinn, Frank W.
 Sciaky, Sam
 Scott, Miss Maud E.
 Scott, Willis H.
 Scribner, Gilbert
 Scribner, Gilbert H., Jr.
 Scudder, Mrs.
 William M.
 Seaholm, A. T.
 Searle, Daniel C.
 Searle, Mrs. Nell Y.
 Searle, William L.

ASSOCIATE MEMBERS (CONTINUED)

- Sears, Miss Dorothy
 Sears, J. Alden
 Seaton, G. Leland
 Seaverns, Louis C.
 Sedgwick, C. Calen
 Sedlacek, Frank
 See, Dr. Agnes Chester
 Seeburg, Justus P.
 Seeburg, Noel M., Jr.
 Segal, Victor
 Seibold, Mrs.
 Arthur B., Jr.
 Seifert, Mrs. Walter J.
 Seip, Emil G.
 Seipp, Clarence T.
 Seipp, Edwin A., Jr.
 Seipp, William C.
 Selig, Lester N.
 Selseth, Ole
 Sembower, John F.
 Sencenbaugh, Mrs. C. W.
 Senne, John A.
 Serota, Dr. H. M.
 Sethness, C. H., Jr.
 Sevic, Mrs. William
 Sexton, Thomas G.
 Shanahan, Mrs. David E.
 Shapiro, Henry
 Sharp, Carl J.
 Sharrow, H. N.
 Shaw, Alfred P.
 Shaw, Mrs. Arch W.
 Shaw, John I.
 Sheldon, James M.
 Shelton, Dr. W. Eugene
 Shepherd, Mrs. Edith P.
 Shepherd, Miss Olive M.
 Sherman, Mrs. W. W.
 Shillestad, John N.
 Shillinglaw, David L.
 Sholan, Nels
 Shoemaker, M. M.
 Shoemaker, Paul B.
 Shorey, Clyde E.
 Shroyer, Malcolm E.
 Shumway, Edward D.
 Shumway, Mrs. Edward
 De Witt
 Shumway, Spencer
 Thomas
 Shure, Myron B.
 Siebert, C. Stuart, Jr.
 Sieck, Herbert
 Siemund, Roy W.
 Sieracki, Mrs. Anton
 Silander, A. I.
 Silberman, Charles A.
 Silberman, David, Jr.
 Silberman, David B.
 Silberman, Hubert S.
 Silberman, N. M.
 Sill, Vincent D.
 Sills, Budd
 Sills, Clarence W.
 Silverstein, Ramond
 Simond, Robert E.
 Simonds, Dr. James P.
 Simonson, Burton E.
 Simpson, Lyman M.
 Sims, Edwin W., Jr.
 Sims, William W.
 Sincere, Henry B.
 Sinclair, Dr. J. Frank
 Singer, Mrs. Mortimer H.
 Singer, William A.
 Sinsheimer, Allen
 Siragusa, Ross D.
 Sisskind, Louis
 Sittler, Edwin C.
 Sivage, Gerald A.
 Skarrn, Kenneth W.
 Skleba, Dr. Leonard F.
 Slater, Frederick J.
 Smallberg, Dr.
 William A.
 Smick, Robert W.
 Smith, Bruce M.
 Smith, Harold Byron
 Smith, Dr. Edward C.
 Smith, Mrs. Hermon
 Dunlap
 Smith, J. P.
 Smith, Jens
 Smith, Mrs.
 Katharine Walker
 Smith, Mrs. Kinney
 Smith, L. Richard
 Smith, Lynwood
 Smith, Miss Marion D.
 Smith, Paul C.
 Smith, Mrs. Ruth B.
 Smith, Mrs. Theodore
 White
 Smith, Z. Erol
 Smuk, Dr. J. E.
 Smullan, Alexander
 Snodell, Walter S., Jr.
 Snow, Lendol D.
 Snyder, Harry
 Snyder, Richard E.
 Sobel, Mrs. Herbert H.
 Sola, Joseph G.
 Solomon, Alfred B.
 Somerville, Mrs. William
 Sopkin, Mrs. Setia H.
 Sorensen, Stanley M.
 Sorensen, T. R.
 Spacek, Leonard P.
 Spalding, Mrs.
 Vaughn C., Jr.
 Spatta, George
 Specht, Mrs. F. W.
 Speer, Robert J.
 Spencer, Mrs.
 Frederich L.
 Spencer, William M.
 Spencer, Mrs. William M.
 Sperry, Mrs. Leonard M.
 Sperry, Oliver R.
 Spertus, Herman
 Spiegel, Mrs. Arthur H.
 Spiegel, Mrs. Gatzert
 Spiegel, Dr. Manuel
 Spiegel, Peter J.
 Spiel, Mrs. Robert E.
 Spielmann, Willson
 Spitz, Joel
 Spooner, Dr. Bruce A.
 Sporrer, M. J.
 Sprague, Dr. John P.
 Spray, Cranston
 Spreyer, F. L.
 Sprtel, Dr. Simon L.
 Squires, John G.
 Staack, Dr.
 H. Frederick, Jr.
 Stacey, Mrs. Thomas I.
 Staehle, Jack C.
 Staley, Miss Kate
 Starbird, Miss Myrtle I.
 Starrels, Joel
 Stateler, C. B.
 Staub, E. Norman
 Steadry, Frederick O.
 Stefan, Joseph J.
 Steele, Henry B., Jr.
 Steele, Mrs. Walter D.
 Steepleton, A. Forrest
 Stein, Mrs. Henry L.
 Stein, Dr. Irving, Sr.
 Stein, Sydney, Jr.
 Steinberg, Dr. Milton
 Steiner, George R.
 Steiner, Harold C.
 Stenson, Frank R.
 Stephan, Mrs. John
 Stephani, Edward J.
 Stephens, W. R., Jr.
 Sterba, Dr. Joseph V.
 Stern, Mrs. Alfred
 Stern, David B.
 Stern, Gardner H.
 Stern, Oscar D.
 Stevens, Mrs.
 Clement D.
 Stevens, Delmar A.
 Stevens, Elmer T.
 Stevenson, Engval
 Stewart, John
 Stine, Francis B.
 Stiner, Mrs. Norman J.
 Stipp, John E.
 Stirling, Miss Dorothy

ASSOCIATE MEMBERS (CONTINUED)

- Stitt, Robert B.
 Stoker, Nelson D.
 Stone, J. McWilliams, Jr.
 Stone, Mrs. Theodore
 Stough, Mrs. Jay
 Stratton, Paul
 Straus, Frederick W.
 Straus, Henry H.
 Straus, Martin L.
 Straus, Melvin L.
 Strauss, Dr. Alfred A.
 Strauss, Mrs.
 Herman A.
 Strauss, Ivan
 Strauss, John L.
 Straw, Mrs. H. Foster
 Streicher, I. H.
 Strickfaden, Miss
 Alma E.
 Stromberg, Charles J.
 Strong, Edmund H.
 Strong, M. D.
 Strong, Mrs. Walter A.
 Strotz, Harold C.
 Stuart, Robert D., Jr.
 Stuebner, Erwin A.
 Stulik, Dr. Charles
 Stults, Allen P.
 Sturgis, John C.
 Sturtevant, Roy E.
 Sturtevant, Mrs. Roy E.
 Sudler, Carroll H., Jr.
 Summer, Mrs. Edward
 Sundin, Ernest G.
 Suomela, John P.
 Sutherland, Mrs. Robert
 Sutherland, William
 Swain, David F.
 Swanson, Holgar G.
 Swartchild, Edward G.
 Swartchild, William G.
 Swett, Israel
 Swett, Robert Wheeler
 Swibel, Charles R.
 Swift, Mrs. Alden B.
 Swift, Edward F., Jr.
 Swift, George H., Jr.
 Swift, Gustavus F., Jr.
 Swonk, Wayne
 Sykes, Aubrey L.
 Sykes, Byron M.
 Sykes, Mrs. Wilfred
- Talbot, Mrs. C. Conover
 Tallman, John Emil
 Tanan, Stanley J.
 Tarrant, Mrs. Robert
 Tarrant, Ross
 Tax, Dr. Sol
 Taylor, Mrs. A. Thomas
 Taylor, E. Hall
- Taylor, Herbert J.
 Taylor, L. S.
 Taylor, Orville
 Tellschow, H. B.
 Temple, Charles Vaché
 Templeton, Walter L.
 Tenney, Henry F.
 Terry, Fos Bell
 Thatcher, Everett A.
 Thelen, Floyd E.
 Thillens, Melvin
 Thomas, Mrs. Florence T.
 Thomas, Dr. William A.
 Thomas, W. E.
 Thompson, Arthur H.
 Thompson, A. M.
 Thompson, Ernest H.
 Thompson, Floyd E.
 Thompson, John E.
 Thompson, Dr. W. V.
 Thon, Warren H.
 Thoren, Mrs. J. N.
 Thornburn, John N.
 Thorne, Hallett W.
 Thornton, Roy V.
 Thorson, Reuben
 Thrasher, Dr. Irving D.
 Thresher, C. J.
 Thulin, F. A.
 Thullen, Henry M.
 Tibbetts, Mrs. N. L.
 Tiberius, George
 Tieken, Theodore
 Tilden, Louis Edward
 Tobey, William Robert
 Tockstein, Miss
 Mary Louise
 Todt, Mrs. Edward G.
 Tolpin, Paul H.
 Tonn, George
 Topaz, Martin
 Torbet, A. W.
 Torff, Selwyn H.
 Torosian, Peter G.
 Torrence, George P.
 Touchstone, John Henry
 Towler, Kenneth F.
 Towne, Mrs. John D. C.
 Tracy, Wilfred
 Traer, Glenn W.
 Trainor, H. J.
 Trask, Arthur C.
 Traut, Bernard H.
 Travelletti, Bruno L.
 Travis, Eugene C.
 Traylor, Mrs.
 Melvin A., Jr.
 Traylor, Mrs.
 Melvin A., Sr.
 Treffeisen, Gustave
 Trenkmann, Richard A.
- Trimble, Mrs. M. B.
 Tripp, Chester D.
 Trombly, Dr. F. F.
 Trowbridge, Mrs.
 A. Buel, Jr.
 Trude, Mrs. Mark W.
 True, Charles H.
 Trumbull, William M.
 Tumpeer, Joseph J.
 Turner, G. H.
 Turner, Mrs. Horace E.
 Turney, Kenneth R.
 Tyler, Thomas S.
 Tyrrell, Miss Frances
- Ughetti, John B.
 Uihlein, Edgar J., Jr.
 Ullmann, Herbert S.
 Ullmann, S. E.
 Ulrich, Norman A.
 Upham, Mrs.
 Frederic W.
 Urbain, Leon F.
 Uriell, Francis H.
 Utter, Mrs. Arthur J.
- Vacha, Dr. Victoria B.
 Vacin, Emil F.
 Vail, Dr. Derrick T.
 Vale, Mrs. Murray
 Valentine, Andrew L.
 Valentine, Patrick A.
 Van Artsdale, Mrs.
 Flora D.
 Vance, Dr. Graham A.
 Van Cleef, Felix
 Van Cleef, Mrs. Noah
 Van Cleef, Paul
 Van Dellen, Dr.
 Theodore R.
 Van Deventer,
 Christopher
 Vanek, John C.
 Van Hagen, Miss
 Elizabeth
 Van Kirk, Mrs. R. D.
 Van Mell, Herman T.
 Van Ness, C. Radford
 Van Nice, Errett
 Van Schaak, R. H., Jr.
 Van Winkle, James Z.
 Van Zwoll, Henry B.
 Varel, Mrs. C. D.
 Vasalle, Rudolph A.
 Vaughan, Norman
 Vawter, William A., II
 Vehe, Dr. K. L.
 Venema, M. P.
 Venerable, Mrs. James T.
 Vernon, John T.
 Verson, David C.

ASSOCIATE MEMBERS (CONTINUED)

Vette, J. L.
Vial, Charles H.
Vickery, Miss Mabel S.
Vierling, Mrs. Louis
Vil, Dr. Charles S.
Vogel, James B.
Vogl, Otto
Volkober, J. A.
Von Colditz, Dr.
 G. Thomsen
von Glahn, Mrs. August
von Leden, Dr. Hans
Voorhees, H. Belin
Vose, Mrs. Frederic P.
Voynow, Edward E.

Wacker, Frederick G., Jr.
Wade, Albert G., II
Wager, William
Wagner, Mrs. Frances B.
Wagner, Fritz, Jr.
Wagner, John Alexander
Wagner, Richard
Wahl, Arnold Spencer
Wahl, Orlin I.
Wakefield, Dr. Ernest H.
Wakerlin, Dr. George E.
Waldman, S. C.
Walgreen, C. R., Jr.
Walgreen, Mrs.
 Charles R.
Walker, James
Walker, Mrs. Paul
Walker, Samuel J.
Walker, William E.
Walkowiak, Dr. Lydia
Waller, Mrs. Edward C.
Walsh, Dr. Eugene L.
Wanner, Arthur L.
Ward, Mrs. N. C.
Ware, Mrs. Robert R.
Ware, Mrs. Thomas M.
Wares, Mrs. Helen Worth
Warfield, Edwin A.
Warner, Mrs. John Eliot
Warren, Paul S.
Warren, Walter G.
Warsh, Leo G.
Washburne, Hempstead
Washington, Laurence W.
Wasick, Dr. Milan M.
Wasleff, Mrs. Alexia
Wassell, Joseph
Wasson, Mrs. Isabel B.
Watkins, George H.
Watkins, William A. P.
Watkins, W. W.
Watson, William Upton
Watt, Andrew J.
Watt, Richard F.
Watts, Harry C.

Watzek, J. W., Jr.
Weaver, John M.
Weaver, Robert P.
Webb, Dr. Edward F.
Weber, Warren J.
Webster, Frederick F.
Webster, Miss Helen R.
Webster, Henry A.
Webster, Mrs. R. S.
Weeks, Kenneth L.
Wegrzyn, Dr. John T.
Wegrzyn, Joseph
Weichselbaum, Dr.
 Paul K.
Weigle, Mrs. Maurice
Weil, Alfred J.
Weil, Martin
Weiner, George
Weinress, S. J.
Weinstein, Dr. M. L.
Weinzimmer, Dr. H. R.
Weir, Paul
Weisbrod, Benjamin H.
Weisbrod, Maxfield
Weiss, Dr. Edward
Weiss, Mrs. Morton
Weiss, Siegfried
Weissbrenner, A. W.
Weisskopf, Dr. Max A.
Weitzel, Carl J.
Welch, M. W.
Welles, Mrs. Donald P.
Welles, Mrs. Edward
 Kenneth
Wells, Arthur H.
Wells, C. A.
Wells, Miss Cecilia
Wells, Mrs. John E.
Wells, John Warren
Wells, Preston A.
Wendell, Barrett
Wendell, F. Lee H.
Wendell, Miss
 Josephine A.
Wendorf, Herman
Wentworth, Mrs.
 Mary T.
Wentworth, Mrs.
 Sylvia B.
Wentz, Peter L.
Wenzel, Alfred C.
Wertheimer, Joseph
Wesby, Vernon L.
Wesley, C. N.
West, Thomas H.
Wetmore, Horace O.
Weymer, Earl M.
Wharton, Dr. Donald C.
Wheeler, E. Todd
Wheeler, George A.
Wheeler, Leslie M.

Whipple, Mrs. Charles J.
Whiston, Jerome P.
Whitaker, R. B.
White, Mrs. James C.
White, Richard T.
White, Sanford B.
Whitfield, George B.
Whiting, Lawrence H.
Whitnell, William W.
Whitney, Jack M., II
Whitney, Lafeton
Wicks, Russell M.
Widdicombe, Mrs. R. A.
Wieland, Mrs.
 George C.
Wienhoeber, George V.
Wies, H. M.
Wilbrandt, Robert A.
Wilcox, Robyn
Wild, Lydon
Wilder, Harold, Jr.
Wiles, Mrs. Russell
Wiley, Mrs. Clarence F.
Wilhelm, Dr. Emanuel C.
Wilker, Mrs. Milton W.
Wilkey, Fred S.
Wilkinson, Mrs.
 George L.
Wilkinson, John C.
Willems, Dr. J. Daniel
Willens, Joseph R.
Willett, Howard L., Jr.
Willey, Mrs. Charles B.
Williams, Harry J.
Williams, Dr. Jack
Williams, Kenneth
Williams, Rowland L.
Williams, Thomas L., Jr.
Williams, W. J.
Williamson, George H.
Williamson, Mrs. Jack A.
Willis, Paul, Jr.
Willis, Thomas H.
Willner, Benton Jack, Jr.
Wilms, Hermann P.
Wilson, Allen B.
Wilson, D. H.
Wilson, Edward Foss
Wilson, Miss Helen A.
Wilson, John P., Jr.
Wilson, Mrs. John R.
Wilson, Morris Karl
Wilson, Philip Servis
Wilson, Robert H.
Winans, Frank F.
Windsor, H. H., Jr.
Winston, James H.
Winston, Mrs. James H.
Winter, Irving
Winter, Munroe A.
Wirth, J. W.

ASSOCIATE MEMBERS (CONTINUED)

Wishnick, Dr.
Seymour D.
Witkowski, Dr. Lucjan L.
Witter, William M.
Wlochall, Arthur
Wolbach, Murray, Jr.
Wolf, Walter B.
Wolfe, Lloyd R.
Wood, Mrs. Gertrude D.
Wood, Mrs. Hettie R.
Wood, Kay
Wood, Mrs. R. Arthur
Wood, Robert E.
Wood, Mrs. Rollin D.
Woodall, Lloyd
Woods, Frank H.
Woods, Weightstill
Woolman, John S.
Wright, George L.
Wright, H. C.
Wrigley, Mrs. Charles W.

Wronski, Casimir
Pulaski
Wulf, Miss
Marilyn Jean
Wyatt, Harry N.
Wupper, Benjamin F.

Yager, Mrs. Vincent
Yarnall, Frank H.
Yates, T. L.
Ylvisaker, L.
Yondorf, John David
Yondorf, Milton S., Jr.
Yonkers, Edward H.
Yorkey, Mrs. Margaret
Yost, Miss Karyl
Young, B. Botsford
Young, Dr. Donald R.
Young, E. Frank
Young, George W.

Young, J. L.
Young, William T., Jr.

Zabel, Max W.
Zabel, Mrs. Max W.
Zapel, Elmer J.
Zadek, Milton
Zeisler, Mrs. Ernest B.
Zerler, Charles F.
Ziebarth, Charles A.
Zimmerman, E. W.
Zimmerman, Louis W.
Zimmermann, Frank O.
Zimmermann, Russell A.
Zinke, Otto A.
Zitzewitz, Mrs. Elmer K.
Zitzewitz, Mrs. W. R.
Zivin, Mrs. Alma M.
Zurcher, Mrs. Suzette M.
Zwiener, Kenneth V.

DECEASED 1960

Bastien, A. E.
Brewer, Mrs. Angeline L.

Campbell, Chesser M.
Carpenter, Mrs.
Frederic Ives, Sr.
Clithero, W. S.
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 Vail, Mrs. Daniel M.
 Vail, Donald P.
 Vail, J. Dean, Jr.
 Valdes, Dr. Pedro A.
 Valentine, Mrs. Joseph L.
 Van Buskirk, M. G.
 Vance, S. M.

ANNUAL MEMBERS (CONTINUED)

Vanderkloot, Dr. Albert	Vose, Hamilton, Jr.	Warshawsky, Roy I.
Vander Kloot, Nicholas J.	Voytech, Charles F.	Warshell, Henry L.
van der Meulen, John H.	Vratny, Thomas J.	Warwick, O. H.
Vander Ploeg, Frank	Vyse, T. A. E.	Was, Dr. Harold H.
Vanderwieken, Mrs. Edwin P.	Wach, Dr. Edward C.	Washburn, Dr. Kenneth C.
Van Deventer, William E.	Wachtel, Dr. Hans	Wasson, Theron
Van Dyk, S. A.	Wachter, Frederick J.	Waterbury, Donald O.
Van Epps, Dr. James	Wack, Mrs. Edwin O.	Waterfield, John R.
Van Etten, Floyd G.	Wack, Mrs. Otis	Waterman, Mrs. Alex H.
Van Gerpen, George	Wagner, Mrs. David H.	Waterman, French
Van Gorkom, Mrs. J. W.	Wagner, Dr. Hans H.	Watling, John
Van Hazel, Dr. Willard	Wagoner, William F.	Watrons, David C.
Van Kampen, A. H.	Waitkus, E. Algerd	Watson, D. R.
Van Moss, J. H., Jr.	Wajoy, Dr. Rose Mary	Watson, Harry P.
Van Ness, A. L.	Waldie, Benjamin D.	Watson, Norman E.
Van Stanten, James	Waldman, Dr. Albert G.	Watts, Amos H.
Van Swearingen, Guy H.	Waldner, Arthur L.	Watts, G. W.
Van Zandt, H. W.	Waldo, C. Ives, Jr.	Watts, James A.
Vargo, Steve	Walgren, Lawrence C.	Watts, Dr. Walter F.
Varley, John S.	Walker, Dr. Alfred O.	Waud, Morrison
Vasalle, Master David	Walker, Frank R.	Weatherby, George W.
Vaughn, Wilbert T.	Walker, Dr. Maggie L.	Weathers, Everett A.
Velvel, Charles	Walker, Reno R.	Weaver, Sheldon A.
Velvel, H. R.	Walker, Ward	Webb, Dr. A. C.
Venrick, Mrs. Charles F.	Walker, Mrs. William Ernest	Webb, Dr. J. Lewis
Verhaag, Dr. Joseph E.	Wall, Dr. James M.	Webber, Mrs. Harriet P.
Ver Nooy, Miss Winifred	Wallace, William B.	Weber, James E.
Vernon, Leroy N.	Wallace, Zearl B.	Weber, Miss Laura M.
Vetter, Paul G.	Wallenstein, Sidney	Weber, Paul W.
Veverka, Dr. Frank J.	Waller, Percy H.	Webster, Dr. Augusta
Vicari, Dr. Frank A.	Wallerstein, David B.	Webster, N. C.
Vick, Maurice B.	Wallgren, Eric M.	Webster, Wesley G.
Victorine, Vernon E.	Wallin, Mrs. G. W.	Wedereit, Gene
Viger, James W.	Walling, Mrs.	Weeks, Harrison S.
Vihon, Charles H.	Willoughby G.	Weick, George T.
Vilas, Mrs. Royal C.	Wallingford, Donald H.	Weidert, William C.
Vilsoet, William	Wallis, Wayne	Weigel, George K.
Vincenti, Anthony P.	Walter, Guy S.	Weil, Mrs. Carl H.
Vivas, Julio	Walters, Gary G.	Weil, David Maxwell
Vleek, Dr. Anton J.	Walther, Cole	Weiner, Aaron B.
Vogel, Mrs. Leslie H.	Waltman, C. E.	Weiner, Charles
Vogelback, Mrs. William E.	Walz, John W.	Weinress, Morton
Vogler, George A.	Wang, Dr. S. Y.	Weinstein, Harold
Vogt, Mrs. Albert	Wanger, David E., Jr.	Weintroub, Benjamin
Voigt, Mrs. Wilbur R.	Wanzer, H. Stanley	Weisbrod, Mrs. H. Johnstone
Vollbrecht, John L.	Warady, Dr. Seymour C.	Weisdorf, Dr. William
Vollmer, Karl F.	Ward, Eugene R.	Weiser, Donald K.
Von Brauchitsch, Frederick C.	Ward, Granville	Weisman, Mrs. Nat
Vondrasek, Earl A.	Ward, Mrs. Herbert S.	Weiss, Dr. Arthur M.
Vonesh, James F.	Ward, William Parker	Weiss, Dr. Leon H.
Vonesh, Raymond J.	Warde, Frederick A.	Weiss, Dr. Marvin A.
Von Gehr, George	Wardwell, Allen	Weiss, Louis J.
Voorhis, Jerry	Wardwell, Henry	Weiss, Norman L.
Voosen, John C.	Ware, James R.	Weissman, Dr. Irving
Voris, Dr. Harold C.	Ware, Willis C.	Weldon, Richard H.
Vorreiter, C. W.	Warman, Winfield C.	Welfeld, Marvin J.
	Warner, Mason	Wells, Sidney
	Warner, Peter B.	Welsh, Vernon M.
	Warren, Richard C.	Wendt, Mrs. M. R.

ANNUAL MEMBERS (CONTINUED)

Wenner, Mrs. David, Jr.	Williamson, Harold A.	Woodall, Lloyd
Wenninger, William C.	Willis, George H.	Woods, Dr. A. W.
Werelius, Dr. Carl Y.	Willis, Ivan L.	Woodson, William T.
Werner, Mrs. A. J.	Willy, Dr. Ralph G.	Woodward, Miss
Werner, Dr. Howard L.	Wilsey, Dr. H. Lawrence	Mary H.
Wernstrom, Dr. Gurli	Wilson, Allen	Woolard, Francis C.
Werrenrath, Reinald, Jr.	Wilson,	Woolpy, Max
Wessling, Richard	Christopher W., Jr.	Workman, S. L.
West, Arthur	Wilson, Dr. Earle E.	Works, Nelson C., Jr.
West, James D.	Wilson, E. W.	Worthington, La Grange
West, Lawrence J.	Wilson, Harold E.	Worthy, James C.
West, Richard H.	Wilson, Mrs. John H.	Wray, Franklin C.
Westbrook, Charles H.	Wilson, Joseph J.	Wray, Glenn
Westerhold, Mrs.	Wilson, Robert M.	Wreath, Robert L.
Lenora C.	Wilson, Mrs. Roger V.	Wren, Dr. Charles W.
Westfall, Dr. Robert E.	Wilson, Miss S. Edna	Wright, Benjamin D.
Wetherell, Warren	Windchy, Mrs.	Wright, John A.
Weyforth, B. Stuart, Jr.	Frederick O.	Wright, C. G.
Whall, Arthur L.	Winkenweder, V. O.	Wright, Dr. F. Howell
Wharton, Mrs.	Winkler, Edward	Wright, Miss
Joseph P., Jr.	Winograd, Dr. Alvin M.	Margaret J.
Wheary, Warren	Winston, Farwell	Wrightson, William F.
Wheaton, David	Winter, Mrs. Gibson	Wujcik, Robert
Wheeler, Mrs. Seymour	Winter, Ted	Wulf, Miss Lydia
Wheeler, W. L.	Winterbotham, John R.	Wybel, L. E.
White, Gordon	Wise, John P.	Wydra, Henry
White, John G.	Wise, Richard H.	Wyne, Walter
White, Marshall	Wise, Dr. Sidney S.	Wynne, Mrs. Lloyd
White, Miss Naomi	Wiseman, William P.	
White, Dr. Michael S.	Wishingrad, Dr. Lester	Xelowski, Dr. Thad
White, Dr. Philip C.	Wiss, Dr. Edward J.	
White, Philip M.	Withall, H. H.	Yacullo, Dr. William A.
White, Dr. Ralph P.	Withall, Mrs. William E.	Yager, Richard Sidney
White, Richard H.	Witherell, James	Yavitz, Sidney M.
Whitelock, John B.	Witte, Lester	Yellin, Morris
Whiteway, Mrs. R. E.	Witty, Dr. Drake R. A.	Yeoman, George W.
Whiting, Lawrence H.	Wlocholl, Arthur	Yeretsky, Norman M.
Whitsell, Dr. F. M.	Wojnarowsky, Dr.	Yesnick, Dr. Louis
Whittaker, Robert B.	Emilia	Ylvsaker, L.
Wible, R. R.	Wolf, Albert M.	Yntema, Dr. Leonard F.
Wickersham, Mrs. Lucille	Wolf, C. W.	Yohe, C. Lloyd
Wiggins, Kenneth M.	Wolf, Morris E.	Young, C. S.
Wilby, A. C.	Wolf, Orrin E.	Young, George B.
Wilder, E. P., Jr.	Wolf, Albert M.	Young, Rollin R.
Wiles, Bradford	Wolfe, Edward	Young, William T., Jr.
Wilhelm, Eugene A.	Wolfe, Hubert J.	Youngquist, C. Harry
Wilhelm, Mrs. Frank E.	Wolfson, Marvin J.	Youngren, W. W.
Wilkes, Mrs. R. M.	Wolfson, Max J.	
Willard, Nelson W.	Wolfson, Rudolph A.	Zabor, Dr. Robert C.
Williams, Albert D.	Wood, A. E.	Zacek, Miss
Williams, Bennett	Wood, Alexander M.	Genevieve A.
Williams, Miss Diane	Wood, Arthur M.	Zatz, Sidney R.
Williams, Mrs.	Wood, C. A.	Zehr, Ores E.
Ednyfed H.	Wood, Harold F.	Zeiss, Dr. Fred R.
Williams, Dr. Jasper F.	Wood, Kenward T.	Zeitlin, Dr. N. S.
Williams, Lynn A.	Wood, Philip J.	Zeitlin, Samuel E.
Williams, Dr. O. B.	Wood, Reverend	Zekman, Dr. Theodore N.
Williams, Dr. Philip C.	Walter S.	Zelinsky, Mrs. S. F.
Williams, Ralph E.	Wood, William A.	Zeller, Charles B.
Williams, R. Arthur	Wood, Mrs. William J.	Ziegler, Dr. George E.
Williams, Robert J.		

ANNUAL MEMBERS (CONTINUED)

Zielinski, Dr. Victor J.	Zimmerman, Irving	Zitz, Martin
Zigler, John D.	Zimmerman, Dr. Nathan	Zitzewitz, Arthur F.
Zimmerman, Austin M.	Zimmerman, Otto H.	Zoll, William F.
Zimmerman, Dr.	Zimmermann, Frank O.	Zolton, Dr. Joseph
Harold W.	Zimmermann, Mrs. P. T.	Zusser, Maurice M.
Zimmerman, Herbert	Zisook, Edmond N.	Zylstra, Clifford H.

DECEASED 1960

Allyn, Arthur C.	Gatzert, Mrs. August	Rogers, Mrs. J. B.
Atlass, H. Leslie	Gibbs, George M.	Stafford, Richard W.
Benaron, Mrs.	Hart, James A.	Stebler, W. J.
Harry B. W.	Hedley, Arthur H.	Stone, Dr. F. Lee
Bender, Mrs. Charles	Henner, Dr. Robert	Strand, Clifford E. R.
Benjamin, Mrs. Bert R.	Jarecki, Robert A.	Streitmann, Albert P.
Berger, R. O.	Johnson, Edward F.	Sullivan, Frank W.
Bowles, H. S.	Kratsch, Charles	Thal, Hugo J.
Breen, James W.	Lindeman, John H.	Thal, Mrs. Hugo J.
Buckley, Homer J.	Mallegg, O. O.	Vanderbilt, Mrs. Grace C.
Callan, T. J.	Mentzer, John P.	Van Schaick, Mrs.
Church, Freeman S.	Overmeyer, Franklin R.	Ethel R.
Cohen, Louis L.	Roche, John Pierre	Waters, Dr. Carl F.
Deneen, Miss Florence		Wells, D. P.
Eisenstein, Harold L.		Wing, Wallace E.
Ewart, Cyril		Woodward, George

ARTICLES OF INCORPORATION
AMENDED BY LAWS

Articles of Incorporation

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaatt, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }
COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 15th day of November, 1943, the name of FIELD MUSEUM OF NATURAL HISTORY was changed to CHICAGO NATURAL HISTORY MUSEUM. A certificate to this effect was filed November 23, 1943, in the office of the Secretary of State for Illinois.

Amended By-Laws

DECEMBER 1958

ARTICLE I

MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board,

become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the Member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures and entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change

of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation, except as hereinafter provided. He shall make disbursements only upon warrants, signed by such officer, or officers, or other persons as the Board of Trustees may from time to time designate.

SECTION 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of the Chicago Natural History Museum, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust and Savings Bank shall be custodian of "The N. W. Harris Public School Extension of the Chicago Natural History Museum" fund. The bank shall make disbursements only upon warrants signed by such officer or officers or other persons as the Board of Trustees of the Museum may from time to time designate.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of not less than five or more than seven members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to make and alter investments from time to time, reporting its actions to the Board of Trustees. The Finance Committee is fully authorized to cause any funds or investments of the Corporation to be made payable to bearer, and it is further authorized to cause real estate of the Corporation, its funds and investments, to be held or registered in the name of a nominee selected by it.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. The By-Laws, and likewise the Articles of Incorporation, may be amended at any regular meeting of the Board of Trustees by a vote in favor thereof of not less than two-thirds of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.

CHICAGO
NATURAL
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